LINEA NETWORK
PROFESSIONAL

Atlantis

Dual Bay Gigabit Network Storage

Manual

DiskMaster NAS G502D

ITALIANO
Questo prodotto è coperto da garanzia Atlantis **On-Center** della durata di 2 anni. Per maggiori dettagli in merito o per accedere alla documentazione completa in Italiano fare riferimento al sito **www.atlantis-land.com.**

ENGLISH
This product is covered by Atlantis 2 years **On-Center** warranty. For more detailed informations please refer to the web site **www.atlantis-land.com.**
For more detailed instructions on configuring and using the Switch, please refer to the online manual.

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CE/EMC Restriction of Liability

The product described in this handbook was designed, produced and approved according to the EMC-regulations and is certified to be within EMC limitations.
If the product is used in an uncertified PC, the manufacturer undertakes no warranty in respect to the EMC limits. The described product in this handbook was constructed, produced and certified so that the measured values are within EMC limitations. In practice and under special circumstances, it may be possible, that the product may be outside of the given limits if it is used in a PC that is not produced under EMC certification. It is also possible in certain cases and under special circumstances, which the given EMC peak values will become out of tolerance. In these cases, the user himself is responsible for compliance with the EMC limits.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Declaration of Conformity (CE)

Hereby, Atlantis SpA, declares that this Dual Bay NAS is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC "Electromagnetic Compatibility" and 2006/95/EC (Low Voltage Directive) within CE Marking Requirement.

Limited Warranty
Our warranties (for hardware and software) do not cover data loss – *back up the contents of your drive to a separate storage medium on a regular basis*. Also, consequential damages; incidental damages; and costs related to data recovery, removal and installation are not recoverable under our warranties.

Safety Information
- Only qualified personnel should carry out technical work on the device.
- When cleaning, avoid using cleaning sprays and any kinf of solution containing alcohol or other flammable liquids.
- Avoid overheating. This may reduce the life of the device.
- Protect your device from humidity, direct sunlight as well as high and extremely low temperatures.
- Do no place any liquids on or close to the unit.
- If the device is brought from a cold environment into a warmer installation site, bedewing may occur. Wait until the temperature of the device has equalised and it is completely dry before you connect to AC main.
- As this device contains up to 2 Hard Disk, particular care must be taken to ensure that is not exposed to vibrations during operation.
- Please use the supplied AC/DC Adapter included into g-box. If it is connected to other devices, this product or power supply unit may be damaged.
- We recommend that you place the device on a non-slip surface.
- Please note that the rubber/plastic feet on the devices may damage the surface.
- Check the cable regularly for damage. Damaged cables must be replaced immediately.
- Ensure that no objects enter the connection sockets.

	Before starting, take a few minutes to read this manual. Read all of instructions and save this manual for later reference.

	Protect the NAS System from being bumped or dropped. Do not place the NAS on an unstable cart, stand, or table. It may fall, causing serious damage to the product.

Important information for the correct recycle/treatment procedures of this equipment

The crossed-out wheeled bin symbol printed on the unit label or unit packaging indicates that this equipment must not be disposed of as unsorted municipal waste but it should be collected separately.

The waste of electric and electronic equipment must be treated separately, in order to ensure that hazardous materials contained inside the equipment are not buried thereby providing potential future problems for the environment and human health. Moreover, it will be possible to reuse and recycle some parts of the waste of electric and electronic equipment, contributing to reduce the quantities of waste to be disposed of and the depletion of natural resources.

As user of this equipment, you are responsible to return this waste of electronic equipment to an authorised collection facility set up by your Municipality. More detailed information on your nearest collection centre can be obtained from your Municipality or from other competent local entities.

If you are replacing the old equipment with a new equivalent product, the distributor must take-back the old equipment free of charge on a one-to one basis as long as the equipment is of equivalent type and fulfilled the same functions as the supplied equipment.

Your rôle in participating to the separate collection of waste of electric and electronic equipment is essential to ensure that environmental protection and human health objectives connected to a responsible treatment and recycling activities are achieved.

PS.: The above mentioned information are reported herewith in compliance with Directive 2002/96/CE, which requires a separate collection system and specific treatment and disposal procedures for the waste of electric and electronic equipments (WEEE). For further and more detailed information, we invite you to visit our website at www.atlantis-land.com

Thank you for purchasing the DiskMaster storage solution. With speed, ease of use, high capacity, and support for numerous applications, DiskMaster is the ideal solution for all of your data storage needs.

1. 1. Product Overview

1.1 An Overview of the DiskMaster

Securely access all of your multimedia, music and data files on your local LAN or through Internet

Thanks to its Gigabit port(1000Mb/s) and its capacity for two Hard Disks, the DiskMaster provides high speed data throughput with the security that all your data is safe (only RAID1).

Based on the IP protocol, the DiskMaster allows you to access all of your files from anywhere (an FTP server is included),giving you complete control on space and user or group access providing a very granular level of security. Furthermore, the DiskMaster allows you to use your favorite operating system; Windows®, Mac or Linux.

Ease of use, performance and security

The DiskMaster can be used in three modes: single volume, performance, or security mode.

- Finally, if your business or home needs full data security, DiskMaster not only provides a full featured backup software, but also **RAID1** functionality. This way, even if you lose one of disks, you will have an image of your data on the other.
- If performance is what you need, you can configure the DiskMaster in **RAID0** and stream your multimedia and graphic files for multiple users with up to 260Mb/s reading and 220Mb/s writing speeds for immediate access to your data.
- As a **single volume**, DiskMaster uses only 1 Hard Disk Drive.

The smart fan control of DiskMaster automatically adjusts fan speed (4 different levels) according to the system temperature.

iTunes®, BitTorrent™

Turn off your computer and use the DiskMaster as your server. DiskMaster integrates a BitTorrent™ client so that you can now download any file you want without the need to use your computer.

Then, enjoy the benefits of the built-in iTunes and UPNP AV media server to stream music, video and other digital content to compatible media players (Ipod, UPnP Players, PC, XBOX 360 or Playstation 3).

USBCopy allows to quickly back up data from an USB storage device (USB flash, USB card reader or USB HD) to DiskMaster with just one single touch.

Apache/PHP/MySQL

With built-in support for Apache/PHP/MySQL, users can can simply point your browser to your DiskMaster's name (or IP address) to view your website.

Doing away with the need to have a computer connected to it, and allowing you to share it with the rest of the users in the office or at home.

1.1 System Requirements

Before installing Router, your PC should meet the following:

- 1Ghz processor or higher and 512 MB RAM or above
- 30 MB available hard disk space
- Installed network adapter and TCP/IP protocol must be installed on each PC
- Any installed web browser (IE6.0, Firefox version:2.0.0.4 or above) to view the web UI

System Requirements for SmartSync Pro: Windows 2000, XP, Vista, 7, Server 2003, Server 2008, and Server 2008 R2. Both x86 and x64 versions.
Please check website http://www.smartsync.com

1.2 Package contents

Unpack the package and check all the items carefully. Also, keep the box and packing materials in case you need to ship the unit in the future. Inspect the device upon receipt. Notify the carrier and dealer if there is damage. The package is recyclable; save it for reuse or dispose of it properly.

The package should contain the following items:

- DiskMaster Dual BAY Network Storage
- RJ45 CAT 5 cable
- One Quick Start Guide (English, Italian)
- One CD with driver, software, utility and manuals
- Power Adapter AC-DC (12V, 3A)

If any item contained is damaged or missing, please contact your local dealer as soon as possible.

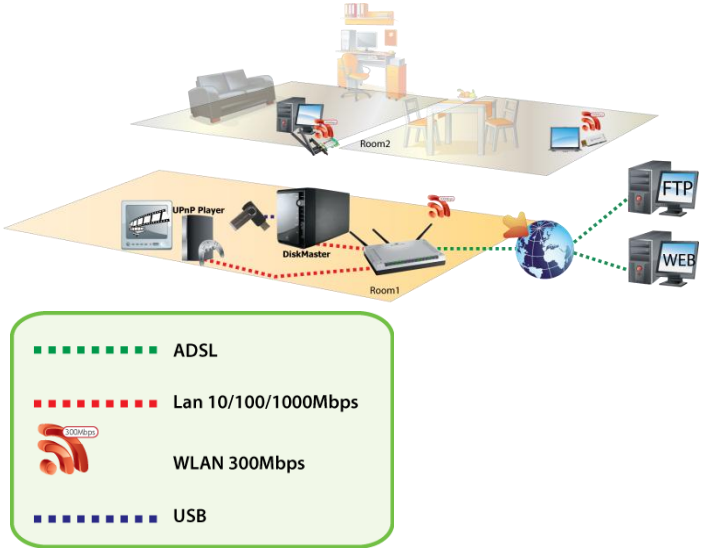
1.3 Choosing a place for your DiskMaster

When selecting a place to set up your Disk Array, be sure to follow these guidelines:

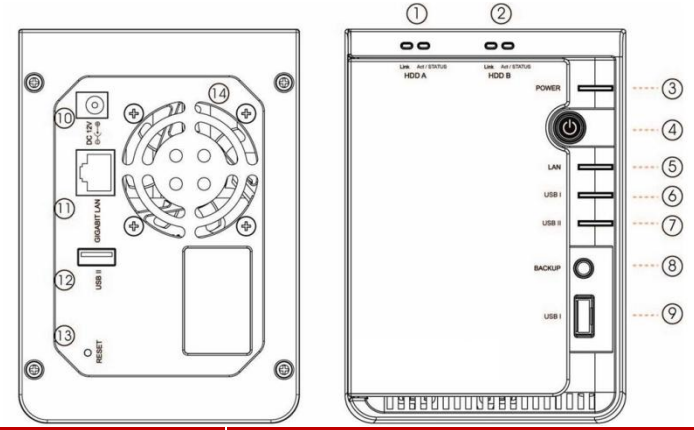
- Place on a flat and stable surface capable of supporting at least 5Kg.
- Place the DiskMaster close enough to a network jack for the Ethernet cable to reach it.
- Leave at least 10cm of space at the rear of the device for ventilation.
- Use a grounded wall outlet (uninterruptible online power supply with AVR is recommended.)
- Avoid an electrical outlet controlled by wall switches or automatic timers. Accidental disruption of the power source may wipe out data in the memory of your computer or Disk Array.
- Keep the entire system away from potential sources of electromagnetic interference, such as loudspeakers, cordless telephones, etc.
- Avoid direct sunlight, excessive heat, moisture, or dust.

1.4 DiskMaster Application

When you have completed the steps in this Quick installation Guide, your connected network should look similar to this:



1.5 The Front LEDs and Rear Ports



PORT/Button/LED		MEANING
1	**HDD A LEDs**	HDD A indicators.
2	**HDD B LEDs**	HDD B indicators.
3	**Power LED**	Power ON/OFF indicator.
4	**Power Button**	Power Button. Press the button and holds for 3 seconds to turn ON or turn OFF. Press the power switch to start/shutdown the DiskMaster. It will take approximately 3 minutes to boot up/and shutdown the Operating System.
5	**LAN LED**	LAN connection indicator.
6	**USB I LED**	USB port 1 connection indicator.
7	**USB II LED**	USB port 2 connection indicator.
8	**Backup Button**	Activates Backup from USB ports, 1 or 2.
9	**USB I Port**	USB port 1 connector.
10	**Power DC Jack**	DC adapter power input, DC12V.
11	**Gigabit LAN Port**	RJ45 connector of 10/100/1000 LAN.
12	**USB II Port**	USB port 2 connector.
13	**Reset SW**	Reset button for DiskMaster to reset to its factory

		defaults. After the device has turned on (turn on the power and wait 3 minutes), press and hold reset button for 5/10 seconds, then release it to reset it (this is used when you can not login to the DiskMaster, e.g. forgot the password.
14	**Cool FAN**	PWM Cooling FAN. Leave at least 10cm of space at the rear of the device for ventilation.

There is a **Reset** button on the back of DiskMaster which will help return its IP, System ID, System Password and DHCP to their factory default values. Hold at least 5 secs to restore to Default.
In order to obtain a full reset please click **Reset** button here **System->Hard Disk Management->Hard Disk Configuration.**

1.6 Led Display

LED	Color	MEANING
Power	**Green**	Power ON.
LAN	**Green**	• OFF: LAN Disconnected • ON/Flashing: Connected by LAN and Accessing
USB 1	**Green**	• OFF: USB Device Failure or Missing • ON/Flashing: Device Ready/ Data Accessing
USB 2	**Green**	• OFF: USB Device Fail or Missing • ON/Flashing: Device Ready/ Data Accessing
HDD A (Link)	**Orange**	• OFF: HDD Missing • ON: HDD Installed
HDD A (ACT/Stat)	**Blue**	• OFF: HDD Missing or Failure • Normal Flashing: Data Accessing • Slow Flashing: RAID 1 Rebuild • Flashing 3/Slow, 3/Fast: RAID Error

1.7 Default Settings

The TCP/IP protocol stack and Ethernet network adapter must be installed. If not, please refer to MS Windows relative manuals.
Before you configure this device you need to know the following default settings:

- Username**: sysadmin**
- Password: **atlantis**
- IP address: **by DHCP, (If a DHCP server isn't available in the network, the DiskMaster will use 192.168.1.251 and Subnet Mask 255.255.255.0).**
- Server name: **DiskMasterG502D**

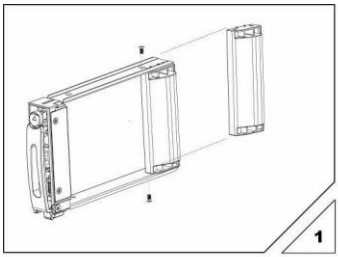
	DiskMaster saves all settings on formatted Hard Disk. If this isn't present all settings will be lost when DiskMaster is turn off.

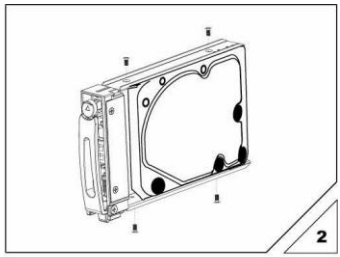
1.8 HDD installation Guide

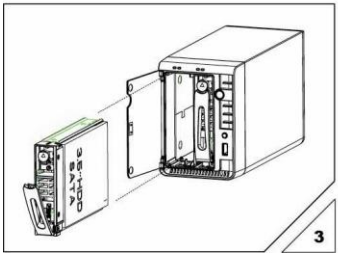
Following is a quick installation guide to get you up and running. For further details on each of the settings, please refer to manual on CD.

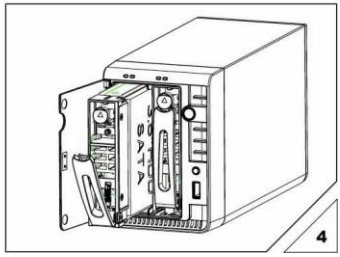
- Unscrew the 4 screws which screws the platic part on the HDD tray.
- Fit the HDD into the tray and screw the 4 screws which are unscrewed form step 1.
- Slide the tray into DiskMaster metal frame.
- Push the tray into metal frame firmly and lock the handle of the try.
- First you must connect the product to the RJ45 ports the PCs of your Lan or others Switch. In the end connect the DC Adapter to the socket then to the DiskMaster.
- Once you've done all the connections the product will carry on immediately a autotest (180 seconds). With the power source on, once the device is connected, the Power and LAN port LEDs will light up indicating a normal status.

Please check the following pictures.









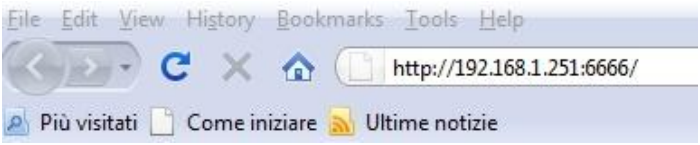
1.9 Building DiskMaster HDD System

If the hard disks are being installed for the first time, you need to initialize the disks before you can use them. Follow the steps described below.

	To configure your DiskMaster, you will need to use the web browser, enter the IP address and then use the web configuration for further setup. To find out the IP address (if You changed) of your device once it is connected to the network, there are several different ways as described on the following pages. Use the Setup utility included on the CD (**CDRom\A06-NASG502D\Utility\NasLink.exe**). This will list the device automatically and allow you to access the web configuration interface with a simple click of your mouse.

	• Insert NAS system CD-Rom in to your computer, and run **NasLink.** • Pressing the **Refresh List** button. • NAS in the same subnet will automatically show up in the **Device list.** Make sure NAS system has probably connect to the network and search again. You might have to configure your firewall/Antivirus or even temporarily turn it off. If a DHCP server isn't available in the network, the DiskMaster will use 192.168.1.251 and Subnet Mask 255.255.255.0. Please verify that PC is configured with a fixed IP address (EG 192.168.1.5/255.255.255.0) that must be in the same subnet of the DiskMaster.

Open the web browser, enter the local port IP address of this DiskMaster, which default at **http//192.168.1.251:6666**, and click **Go** to get the login page.



The default username is **sysadmin**, password **atlantis** and click **Login** to continue.

When you first time login DiskMaster or System Disk hasn't been created, you will be asking if you would like to do RAID configuration.

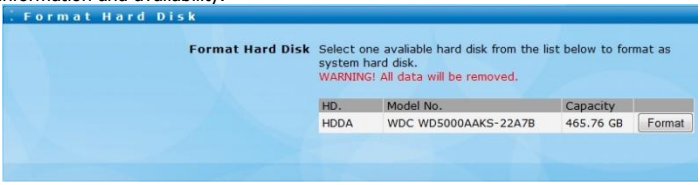
- Click **Cancel**, set HDDs as Normal with 2 distinctive storages.
- Click **OK**, set HDDs to RAID mode, RAID 0 or RAID 1.

There are 2 differents RAID mode:

- **RAID 0:** RAID 0, known as disk striping, has generally the best performance, but does not offer any redundancy. In this level, data is broken into small units called sectors, and sectors are distributed across all disks in the array. As it does not provide any data protection, if any disk in the array fails then all data in the array is lost. Such stripes allocation allows to enhance I/O performance.
- **RAID 1**: RAID Level 1, known as disk mirroring, is a popular approach to protect data from adisk failure. To implement RAID Level 1, you need at least two physical hard drives. As the disks are paired up, all disk writes are duplicated on both disks. You can back up data without interruption using this algorithm. In case of a disk failure, the system can continue to run without being affected.

Formatting the 1st Hard Disk

Tap **Cancel** button on last dialogue box, the screen will display all the hard disk information and availability.



Please select one of the hard disk to buildup system disk (if You instaled 2 HDD), and press **Format** button.

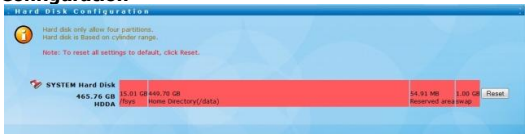
Disk formation is a critical operation of DiskMaster, please aware the notice the message shown as the popup dialogue box. Click **OK** to start disk formatting.

Disk formatting procedure includes 3 steps: **Disk Partition**, **Disk Formatting** and **System Build up.** It will take longer time to complete the procedure as the disk capacity getting larger. Please be patient to wait for its completion.

When formatting completed, the system disk of DiskMaster has been established also, and the message on the screen will be:

Version of kernel 2.6.22.7
System Date 2010-07-19 11:25:04 Monday
Physical Address 00:16:67:02:D6:EA
HDD Space Directory Total Capacity Free Space
/fsys 14.77 GB 13.83 GB
/data 442.64 GB 419.96 GB
Service conditions File Server The service is running
FTP Server Service terminated

There will two more items, **Server** and **GUI** options show in the left side box.
At the right side, besides the basic DiskMaster information, there are two messages show the status of **File Server** (running) and **FTP server** (stopped).

	Detail **System Disk** information can be checked by clicking: **System ->Hard disk Management -> Hard Disk Configuration**  There are 4 partitions in SYSTEM Hard Disk, /fsys, /data, reserved area and swap.

	When the settings are made, the DiskMaster system starts formatting the disks. This procedure will destroy all the data on the disks. Make sure You have backed up any important data on the disks before the format process. It may require some times; do not perform other jobs during hard drive formatting

RAID Mode

You need to install 2 HDDs to create RAID system on DiskMaster. When you first time login DiskMaster or System Disk hasn't been created, you will be asking if you would like to do RAID configuration.
Tap **OK** button on last dialogue box, the screen will display raid type selection as the picture below (or **System ->Hard disk Management -> Hard Disk Configuration)**.

RAID Configuration
To join the RAID, The hard disk must not have any partition. Please delete partition in Hard Disk Configuration.
RAID can not be deleted if mounted.
Note: When RAID fails, "No" will be displayed at "Active" column.
HD.
RAID Level
Active
Member Hard Disk
Capacity
Status
Note
(RAID 0) If you lose a hard disk, data lose will occur!
RAID Level
RAID 0
RAID 1
Member Hard Disk
HDDA WDC WD5000AAKS-22A7B 465.76 GB
HDDB MAXTOR STM3160211AS 149.05 GB
Save

Choose a proper RAID type you want to create on DiskMaster.

- **RAID 0:** Total capacity will be 2 times of the smaller HDD.
- **RAID 1:** Total capacity will be the same to the smaller HDD.

After RAID 0 or RAID 1 is selected, click **Save** to create RAID system. Before creating RAID system, 2 HDDs must be totally clean, there can't be any partitions exist on the HDD.
When RAID system has been created successfully, message will pop as the picture above. Click **Format** to start creating DiskMaster system.
Disk formatting is a critical operation of DiskMaster, please aware the notice the message shown as the popup dialogue box. Click **OK** to start disk formatting.
Disk formatting procedure includes 3 steps: **Disk Partition, Disk Formatting and System Build up**. It will take longer time to complete the procedure as the disk capacity getting larger. Please be patient to wait for its completion.
When formatting completed, the system disk of DiskMaster has been established also, and the message on the screen will be:

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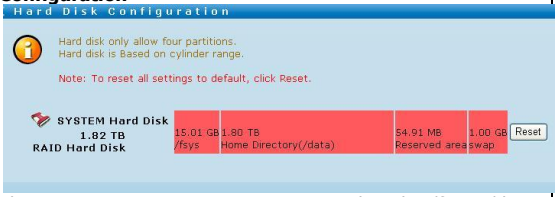
Detail **System Disk** information can be checked by clicking:
System ->Hard disk Management -> Hard Disk Configuration


Hard Disk Configuration
Hard disk only allow four partitions.
Hard disk is Based on cylinder range.
Note: To reset all settings to default, click Reset.
SYSTEM Hard Disk
1.82 TB
RAID Hard Disk
15.01 GB /fsys
1.80 TB Home Directory(/data)
54.91 MB Reserved area
1.00 GB swap
Reset

There are 4 partitions in SYSTEM Hard Disk, /fsys, /data, reserved area and swap.
There is **only one disk can be seen** on the disk information.

1.10 Mapping a Network Drive

Default SAMBA/FTP system account and password

- Factory Default ID: **sysadmin**
- Factory Default PW: **atlantis**
- The folder **public** is created and activated.

	A File Server supporting SMB/CIFS provides a shared storage on DiskMaster for users attached to the LAN. It is convenient to share all kinds of computer files on the LAN such as documents, sound/audio files, photographs, movies, images, database, etc. Account filtering schemes help avoid users from any kind of malice and ensuring the safety of data. Please verify that status is activated (**Server->File Server->Status)** .

Mapping a Network Drive in Windows XP

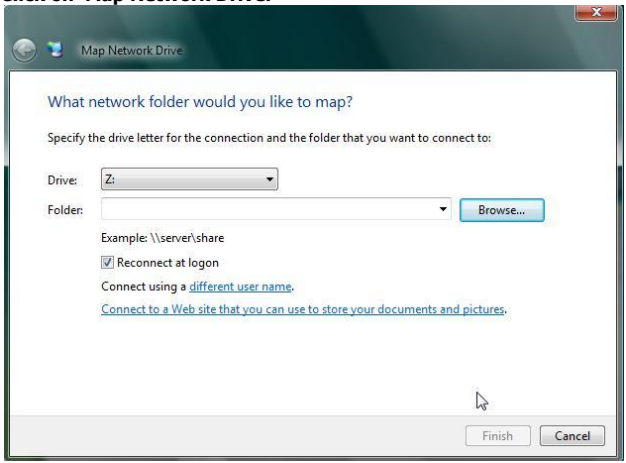
- **Start->Control Panel.**
- Go to the **Tools** menu and select Map **Network Drive.**
- Follow the setup wizard and fill in the path to your **DiskMasterG520D.** Alternatively, you can also browse for the shares by clicking on the **Browse** button and locating the folder that way (choose **public** folders).
- Select **Reconnect at Logon**.
- Click on **different user name** and digit username and password (sys**admin, atlantis**). Then click **OK**.
- Then click **Finish.**

Once the drive has been mapped, you are able to find and access it under My Computer. This link will still be there even after rebooting your Operating System.

	In event of problem, please write directly the IP (instead of name) in the folder name. Please write: **\\IP address\public**. Click on **different user name** and digit username and password (**sysadmin, atlantis**). Then click **OK,** then **Finish.**

Mapping a Network Drive in Windows Vista/7

- **Start->Computer**
- **Click on Map Network Drive.**


Map Network Drive
What network folder would you like to map?
Specify the drive letter for the connection and the folder that you want to connect to:
Drive:
Z:
Folder:
Browse...
Example: \\server\share
Reconnect at logon
Connect using a different user name.
Connect to a Web site that you can use to store your documents and pictures.
Finish
Cancel

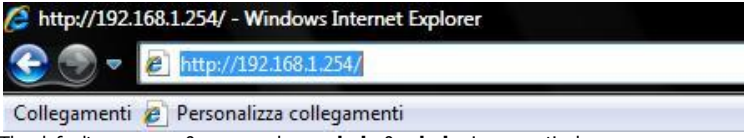
- Follow the setup wizard and fill in the path to your **DiskMasterG502D**. Alternatively, you can also browse for the shares by clicking on the **Browse** button and locating the folder that way (choose **public** folders).
- Click on **different user name** and digit username and password (**sysadmin, atlantis**). Then click **OK.**
- Select **Reconnect at Logon then** click **Finish.**

Once the drive has been mapped, you are able to find and access it under My Computer. This link will still be there even after rebooting your Operating System.

	If event of problem , please write directly the IP (instead of name) in the folder name. Please write:**\\IP Address\public**. Click on **different user name** and digit username and password (**sysadmin, atlantis**). Then click **OK,** then **Finish.**

2. WEB Configuration

Open the web browser, enter the local port IP address of this device, which defaults at **http://192.168.1.10**, and click "**Go**", a username and password window will appear.



The default username & password are **admin** & **admin**, in respectively.

To configure your DiskMaster, you will need to use the web brows enter the IP address and then use the web configuration for furth setup. To find out the IP address (if You changed) of your device once is connected to the network, there are several different ways described on the following pages.
Use the Setup utility included on the CD (**CDRom:\Utility\setup.e** This will list the device automatically and allow you to access the configuration interface with a simple click of your mouse.

You will get a status report web page when login successfully. At the configuration homepage, the left navigation page where bookmarks are provided links you directly to the desired setup page, including:

- **System Status [**System Status]
- **Configuration** [Networking, Basic, Server Preference, Admin Password, Firmware Upgrade, Backup/Restore, Factory Defaults, Reboot/Shutdown, Remote Package]
- **Share Management** [Share Folder, User Management]
- **Backup** [Scheduling Backup]
- **Disk Utility** [Disk Information, Disk Mode, Format Disk]
- **System Logs** [SysLog Server, System Logs]
- **Service Configuration** [iTunes Server, UPnP Server, BT Client, NAS Printer]

Click on the desired item to expand the page in the main navigation page.

2. Advanced Web Configuration

La configurazione del dispositivo può essere fatta esclusivamente via WEB.
Lanciare il browser web e digitare http://Indirizzo ip:6666

	Per conoscere questo indirizzo IP è possibile seguire una delle seguenti 3 strade: ▪ Se sulla rete **non è presente un server DHCP**, il DiskMaster si posizionerà sull'IP di default **192.168.1.251**. ▪ Se sulla rete **è presente un server DHCP, il DiskMaster prenderà da questo l'indirizzo IP**. Consultare questo server per vedere l'IP assegnato al DiskMaster. ▪ Lanciare, da un PC connesso alla stessa rete cui il DiskMaster è collegato, l'utility **NASLink** (presente nel **CDRom\A06-NASG502D\Utility\NasLink.exe**). In **Device List** cliccare 2 volte su **DiskMasterG502G** (accertarsi che ogni Firewall/Antivirus sia disabilitato) e controllare in **LAN IP** l'indirizzo assegnato all'apparato. Verrò mostrata una finestra che informa del fatto che il dispositivo non è stato ancora inizializzato.

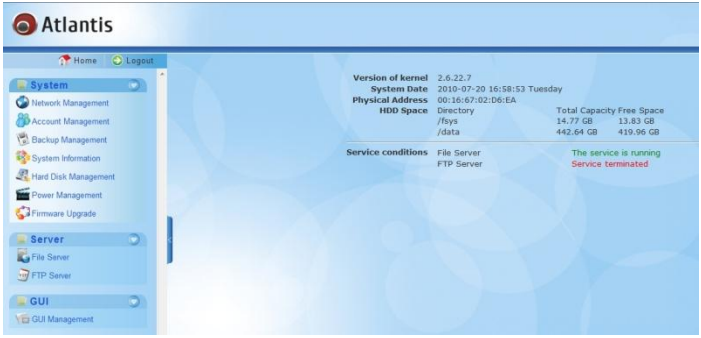
Apparirà la finestra di login.

Digitare username/password (**syadmin** e **atlantis**) e cliccare su **Login.**
Apparirà a questo punto il Menù Principale, nella cui partesinistra è possibile accedere (come se si stessero vedendo i links in una homepage) a tutte le 3 sezioni principali:

- **System** (Networking Management, Account Management, Backup Management, System Information, Hard Disk Management, Power Management, Firmware upgrade)
- **Server** (File Server, FTP Server)
- **GUI** (GUI Management)

Cliccando sulla sezione desiderata si apriranno tutta una serie di sottosezioni tra cui scegliere prima di avere accesso alle configurazioni vere e proprie.

	Differenti funzioni e menu potrebbero non essere disponibili prima della formattazione del disco rigido e/o dell'installazione di moduli aggiuntivi. L'apparato memorizza la configurazione su disco, pertanto la mancanza di questo non permette di rendere permanenti i settaggi.



La schermata principale, richiamabile cliccando su **Home**, mostra le seguenti informazioni:

- **Kernel Version:** Viene mostarta la release di Kernel utilizzata
- **System Date:** Viene mosytrata l'ora corrente
- **Physical Address**: Viene mostrato il Mac Address del DiskMaster
- **HDD Space:** Viene mostrato lo spazio libero e quello totale per le partizioni di dati e sistema.
- **Service Conditions:** vengono mostrati i servizi disponibili e lo stato

	Le condizioni di default prevedono che il solo servzio File Server sia installato e attivo (il servizio FTP è installato ma non attivo).

Cliccare sul bottone **Logut** per uscire dalla UI del DiskMaster.

2.1 SYSTEM->Networking Management

NetWork Settings

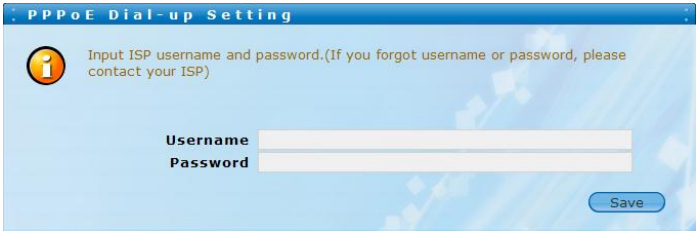
These settings help DiskMaster connect to the network

- **IP Status:** The default value is **Automatically (DHCP).** In this way the DiskMaster is configured as DHCP clients. Check the **Manual Configuration** to set the IP address manually.
- **Host Name:** While the name is changeable to administrator's favorite, the use of "DiskMaster" can help you to memorize how you create your own FQDN (Fully Qualified Domain Name).
- **Domain Name:** The domain name of DiskMaster registers to the internet or the domain name of the internet ISP. It helps you to memorize how you create your own FQDN (Fully Qualified Domain Name).
- **Primary/Slave DNS:** Enter the IP addresses used by DiskMaster to resolve names (this field is active when Status is set to Manual IP Configuration).
- **Physical Address:** Shows the MAC address of DiskMaster's LAN.
- **LAN IP Address:** Enter the IP address by DiskMaster (this field is active when **IP Status** is set to **Manual Configuration**).
- **Subnet Mask:** Enter the subnet mask (this field is active when **IP Status** is set to **Manual Configuration**)
- **Gateway:** The address of the "Gate" which is placed at the junction of the LAN and internet such as Router, AP, or IP Share. They serve as the communication between the internet and the LAN.

After entering the parameters click **Save** to make permanent the configuration.

PPPoE Dial-up Setting

If you are using an ADSL dial-up network connection with a dynamic IP,DiskMaster can also support ADSL dial-up connections. Enter the user name and password provided by the ISP to acquire an ADSL Dynamic IP.


PPPoE Dial-up Setting
Input ISP username and password.(If you forgot username or password, please contact your ISP)
Username
Password
Save

2.2 SYSTEM->Account Management

In this section you can define groups and users. The menù consists of four sub-test:

- **New Account/Account Listing**
- **New Group/Group Listing**

	Before starting you should know the following limitations: ▪ **Initial Letter:** It can't be a number, but only a character ▪ **Use only characters, numbers and "_"** ▪ Windows doesn't recognize the difference between upper case and lowercase instead of machines based on Linux as DiskMaster. It's recommended not to differentiate this account.

New Account

On every new user account on DiskMaster, each account is able to access File server and FTP servers unless otherwise disabled by administrator.
Click **New Account**, to create a new user.

- **Account:** The name of the user login to DiskMaster.
- **Username:** Full user name for administrator.
- **Group:** Check **NEW** to create a new group with the name of account user. Otherwise you can select the group from drop-down menu.
- **Password:** Enter the password which is associated to the account. You can leave this field empty.
- **Data Quota:** Check **Unlimited** not to put limitations of any kind. Otherwise check the **MB** field and enter the limit in MB to set restrictions on employment HDD.
- **Disable File Server Service:** Check to ensure that this account can access via SAMBA.
- **Disable FTP Server Service:** Check to ensure that this account can access via FTP.

After entering the parameters click **SAVE** to make permanent the configuration.

When the web server module is installed, you will see an additional option: **Disable User's Homepage**. Checking this option will prevent users to access their homepage.

When it creates a new user, the DiskMaster create in HOME a folder with the account's name, and in this folder are created 2 subfolders **public_html** and nested **cgi-bin.**

- **public_html:** PHP or HTML content should be placed in this folder.
- **cgi-bin:** cgi contents are all placed in this folder.

When the Web Server module is installed, the user can install in these two folders his own Web site. To view it, simply type: **http://DomainName/~Useraccount**

For mapping a network drive use the syntax: **\\Indirizzo IP \account,** using the credentials already included.
For more details, see the chapter in Section 1.12.

Home Directory	Account Directory	Struttura directory	
Home	User1	Public_html	Cgi-bin
	User2	Public_html	Cgi-bin
	User….	Public_html	Cgi-bin

New Group

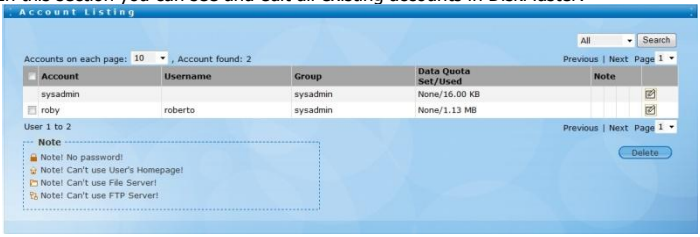
In this section it is possible to create a new group. Type in the field **Group** the name of the new group.

After entering the parameters click **SAVE** to make permanent the configuration.

	Groups should be created before the creation of the users. In this way they may be directly associated with the combo box to the group.

Account Listing

In this section you can see and edit all existing accounts in DiskMaster.



It's possible to see, modify or cancel any account previously created.

	To reomve and account, simply tick the box on the left of the name (account) and then click on **Delete.** When an account il deleted, the corrisponding folder i salso deleted with its stored data.

	To modify an account click on the icon **Edit (** **)** at the corresponding row. You will see the same screen that appears when you create your account. It's possible to modify everything except Account field.

	The user **Sysadmin,** a particular default user created by DiskMaster, can only be modified in some fields (**password, Quota, Disable FTP/File Server**) but not eliminated. Remember that the default password is **atlantis.**

	When the number of users created is very large, you can use the menù **Search** to restrict the listo f accounts displayed.

Group Listing

In this section you can see and modify all the groups existing in the DiskMaster.

To modify an account click on the icon **Edit (** **)** at the corresponding row.
The screen below will appear.

You can modify all the following fields: **Group**, **Quota, Disable FTP/File Server, Homepage.**
Check **Apply Settings** if you modify the following fieldsi: **Quota, Disable FTP/File Server, Homepage.**
Click **Save** to make permanent the configuration.

To remove a group simply tick the box of the left of the name (Group) and then click on **Delete.**
The Group **Sysadmin** can't be deleted.
When a group is deleted, all members are eliminated. Make sure that the group you want to delete hasn't active members (these can be moved to another group, refer to **Account Listing**)

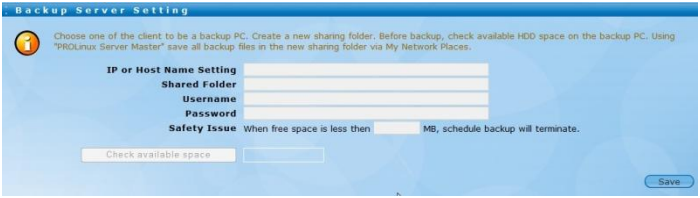
	When the number of groups created is very large, you can use the menu **Search** to restrict the list of accounts displayed.

2.3 SYSTEM->Backup Management

Throught this feature the DiskMaster can make a backup to a remote PC, another DiskMaster or any shared network folder.
Files are encrypted and compressed in order to make the process safer and reduce transmission times.
The menu consist of three sub-menu:

- **Backup Server Setting**
- **Backup/Restore**
- **Schedule Backup**

Backup Server Setting


Backup Server Setting
Choose one of the client to be a backup PC. Create a new sharing folder. Before backup, check available HDD space on the backup PC. Using "PROLinux Server Master" save all backup files in the new sharing folder via My Network Places.
IP or Host Name Setting
Shared Folder
Username
Password
Safety Issue
When free space is less then
MB, schedule backup will terminate.
Check available space
Save

- **IP or Host Name Setting:** Enter the IP address where the shared folder resides.
- **Shared Folder:** Type the name of the folder.
- **Username / Password:** Enter the log-on credentials of the folder.
- **Safety Issue:** You can stop the backup process whan the space available on the remote device doesn't exceed this value. Leaving the field free, backup process will go on until filling all the available space.

After entering the parameters click **Save** to make permanent the configuration.
At this point, if the credentials/IP are correct, the field **Check Available Space** will be clickable. Clicking it, you will see the free space in MB on the machine you want to backup.

	If you use a shared folder on a PC, this should have a static IP address. Make sure the account used for backup has the write access enabled.

	You can make a local backup, the IP address must be 127.0.0.1. You are strongly advised to use another device to backup data.

Backup/Restore

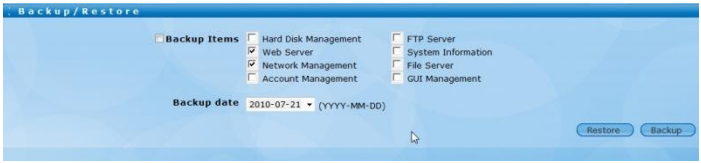
When the "Backup Server Setting" is configured, you can perform instant Backups or Restore from the backed up file/folders.

You can select what you want to backup, or check the **Backup Items** to make a full backup. Then click **Backup.**

DiskMaster will create on the destination folder a folder with the following name "YYYY-MM_DD" with all files within the backup.These files are compressed with the suffix .DAR. For each file you can create a control file with suffix .MD5.
Files created reflect the structure type **item_XXXX.1**.dar e **item_XXXX.1.md5**

	The maximum file size is 1GB. For larger files than this size it will proceed to the segmentation. The backup process will keep one copy per day, regardless of how many instant backup created.

After a backup istance has been correctly completed it's possible to make an instant restore.



You can select what you want to restore, or check **Backup Items** to make a full backup. Select from the combo box **Backup Date** a date and click **Restore.**

	The restore of the field **Network Management** should be done alone to avoid IP configuration problems.

Schedule Backup

In this section you can schedule backup processes. DiskMaster can also send an e-mail to the administrator when the process has correctly finished.

- You can select what you want to backup, or check the **Backup Items** to make a full backup.
- In **Schedule Settings** you can determine the frequency of the operation.
- In **Backup Quantity,** through the combo box, you can determine how many copies left before being erased. Select **ALL** to leave all the copies.
- Check the field **Send Report to Administrators** to enable DiskMaster send an e-mail containing the out come of the administrator's backup (field **Mail Host/Notice to Host** to **GUI Management**).

After entering the parameters click **Save** to make permanent the configuration.

2.4 SYSTEM->System Information

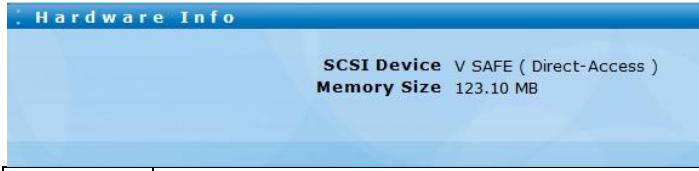
In this section of DiskMaster are shown more information about hardware and information about the date of the device.

The menu consist of two sub-menus:

- **Hardware Info**
- **System Date**

Hardware Info

The system shows information about memory and typology of configuration applied to discs.



	▪ In **RAID0** mode, the device will display V FAST ▪ In **RAID1** mode**,** the device will display V SAFE

System Date

In this section you can configure the internal clock of DiskMaster.

The DiskMaster will update the clock using the following rules:

- When turned on
- For each hour of operation
- At each change of the combo box Time Zone

In **Time Zone** select from the combo-box, the time slot belongs.
After entering the parameters click **Save** to make permanent configuration.

	The fields **Date e Time** (**Date/Time**) should be updated (after about a minute and if your internet connection is active). The default Time Zone of DiskMaster is **Europe/Rome**.

2.5 SYSTEM->Hard Disk Management

The File Server supports SMB/CIFS and allowcs to share folders on PC's connected in LAN. It's possible to share data files, music or video. The management system also allows you to control the access.

The menu si composed by three sub-menus:

- **Hard Disk Configuration:** allow you to enable or disable status of file server. This service is enabled by default.
- **RAID Configuration:** allow you to set the names of Host Name, WorkGroup and Description field.
- **RAID ALarm Settings:** permette allows you to send information to the administrator when the RAID is degraded.

	See Chapter 1 to configure a single disk or raid mode.

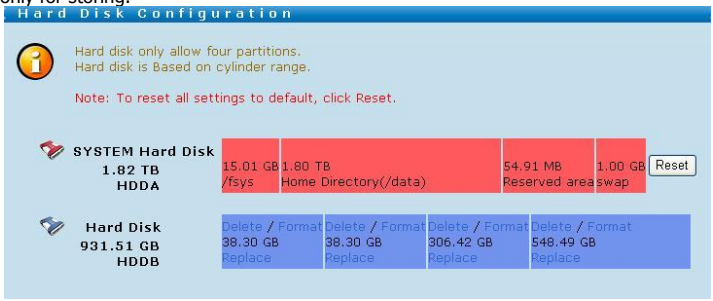
Hard Disk Configuration

In this section you can have access to detailed configuration of the disc/discs. DiskMaster partition the disc in four different areas:

/fsys 15 GB	Home Directory(/data) *The excess capacity is allocated to this partition	Reserved area 50 MB	Swap 1 GB

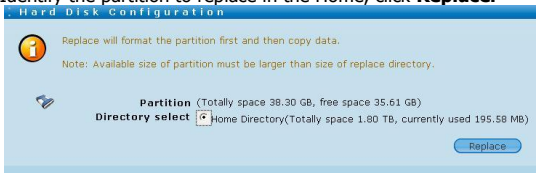
- **/fsys:** This area stores the native modules and extensions, all accounts created and miscellaneous information (includind system settings).
- **/data:** Area used to store data. This partition is the only one to be remapped.
- **Reserved area:** Reserved for future use.
- **Swap:** Used by the system as the cache.

DiskMaster can accomodate two drives configured in RAID, or two discs, or two discs which is the system disc (with the structure above), while the other is used only for storing.

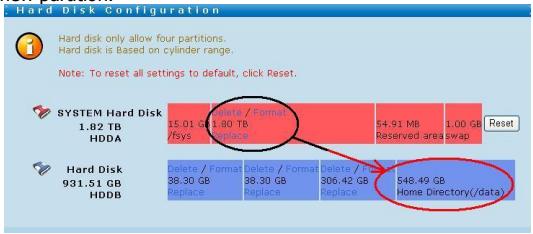


- **Reset:** to delete the contents of HD. The system will prompt you to reboot to re-initialize the disc. If you decide to switch from single disc to a RAID you should reset and then remove all partition (with **Delete**).
- **Delete:** allows removal of the selected partition.
- **Format:** allows formattino in EXT3 the selected partition.
- **Replace:** allows you to change the Home Directory with another. When you perform this operation the entire contents of the Home Directory is moved to the new partition.

Identify the partition to replace in the Home, click **Replace.**


Hard Disk Configuration
Replace will format the partition first and then copy data.
Note: Available size of partition must be larger than size of replace directory.
Partition (Totally space 38.30 GB, free space 35.61 GB)
Directory select
Home Directory(Totally space 1.80 TB, currently used 195.58 MB)
Replace

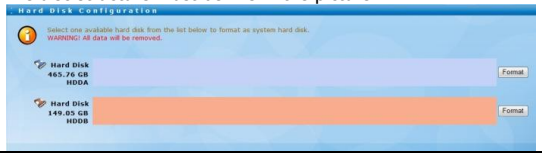
DiskMaster will copy the contents of the Home Directory in the new partition.



The original home directory will be changed into an ordinary partition.

RAID Configuration

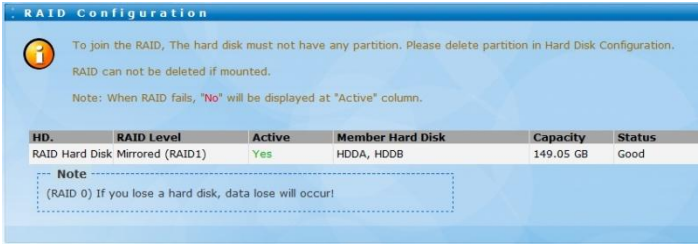
Before creating a RAID should verify that all partition are deleted.
Delete with **Delete** all existing partitions (**Hard Disk Management->Hard Disk Configuration**).
The disc structure must be like in the picture:



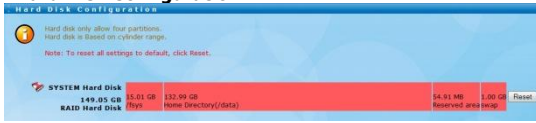
When all partitions have been removed, you can create a RAID.

RAID Configuration
To join the RAID, The hard disk must not have any partition. Please delete partition in Hard Disk Configuration.
RAID can not be deleted if mounted.
Note: When RAID fails, "No" will be displayed at "Active" column.
HD.
RAID Level
Active
Member Hard Disk
Capacity
Status
Note
(RAID 0) If you lose a hard disk, data lose will occur!
RAID Level
RAID 0
RAID 1
Member Hard Disk
HDDA WDC WD5000AAKS-22A7B 465.76 GB
HDDB MAXTOR STM3160211AS 149.05 GB
Save

Select the type and then click **Save.**
When the processo f RAID creation will be completed a pop up window will be displayed. You will now see a screen that shows a **single disc**, to start the formatting process (click su **Format**). The formatting process includes **Disk Partition, Disk Formatting** and **System Build up**. The time depends on the size of the discs installed. When the process is completed, click **OK** on the screen to finish. The screen below will show the status of the RAID (the field STATUS).


RAID Configuration
To join the RAID, The hard disk must not have any partition. Please delete partition in Hard Disk Configuration.
RAID can not be deleted if mounted.
Note: When RAID fails, "No" will be displayed at "Active" column.
HD.
RAID Level
Active
Member Hard Disk
Capacity
Status
RAID Hard Disk
Mirrored (RAID1)
Yes
HDDA, HDDB
149.05 GB
Good
Note
(RAID 0) If you lose a hard disk, data lose will occur!

To remove the RAID click **Reset,** in **Hard Disk Management->Hard Disk Configuration**.



Although the configuration is RAID, shows a single disc (to the left of the word is highlighted **RAID Disk**).

RAID Alarm Settings

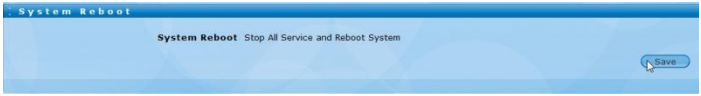
Check the field **Send Out Notices** to allow the sending o fan e-mail in case of errors in RAID.
After entering the parameters click **Save** to make permanent configuration.

	The mail address must be set **GUI Management->System Info.Setup->Administrator E-Mail** The SMTP server must be configured in **GUI Management->Notice to Host**

2.6 SYSTEM->Power Management

System Reboot

Click **Save** to reboot the system. All the services will be stopped and the system rebooted.



Click **Save,** and then click **OK** to confirm to the requests in the following window, to start the rebooting process of DiskMaster.

2.7 SYSTEM->Firmware Upgrade

Module Upgrade

In this section it is possible to install aditional modules in DiskMaster or upgrade your Kernel.
You can install additional packages on the device to expand its functionality.
Native modules already installed on DiskMaster are:

- **SYS:** Is the Kernel of the system.
- **WEBMIN:** The interface used to control DiskMaster.
- **SAMBA:** The File Server.
- **FTP**: The FTP server.

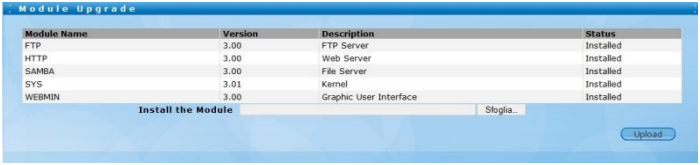
On the CDRom, in the folder **CDRom:\A06-NASG502D\Modules** are given the following packages:

- **HTTP:** Enable the Web server (Apache with PHP/CGI support).
- **MySQL:** Adds MySQL to the system, manageable with phpMyAdmin.
- **PGSQL:**Adds PostgreSQL, manageable with phpPgAdmin.
- **UPnP**: Adds the server UPnP AV to share Musica/Video and Foto.
- **ITunes**:Adds the service ITunes server. Enabling this service allows you to view files in the folder directly from the iTunes client on the network.
- **DownLoad**: Adds the BitTorrent client, Matalink and differentiated services for HTTP and FTP.
- **DDNS**: DiskMaster supports Dynamic DNS service, are supported the following service providers (DDNS-CN99: www.3322.com, DDNS-NOIP: www.no-ip.com, DDNS-NOIPCN: www.noip.com)

	For more information about plug-ins refer to the relevant APPENDIXs.

NOTE:	It should be ensured during the entire phase of upgrades, the alimentation to the device. If this fail, the device may not be recoverable. Make the upgrade using a wired connection and not a wireless one. This could damage the device and void the warranty. Don't use the restore files created with earlier version of the firmware. This might make the device unstable. During the upgrade process you should not close your web browser,load new pages or click on links. This could damage the firmware and make the device useless.

To upgrade/install an additional module, click on **Browse** and specify the path where the module is contained.



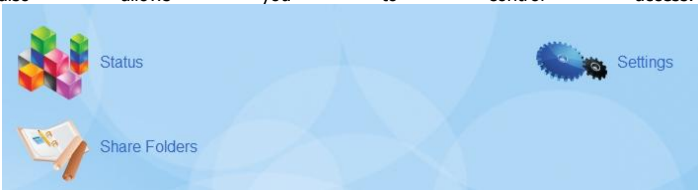
Then click **UpLoad.**

NOTE:	Before upgrade/install controll that the version you install is more recent than the one already installed.

NOTE:	The firmware upgrade (the SYS module) must be made in the following ways: ▪ Do the hard **Reset** of the disc (all data will be lost forever) ▪ To restart the device, enter the Web configuration, don't format the HDD and click **Module Upgrade** and update the **SYS** module**.** ▪ Restart your system, you can **Login** and format the disc.

2.8 SERVER->File Server

The File Server supports SMB/CIFS and allows sharing of folders on PC's connected in LAN. It' s possible to share data files, music or video. The management system also allows you to control access.



The menu in question consist of three sub-menus:

- **Status:** allows you to enable or disable status of file servers. This service is enabled by defaut.
- **Settings:** allows you to set the names of Host Name, WorkGroup and the field Description.
- **Share Folders:** allows you to create new folders and set access permissions.

Status

It's possible start, stop or restart the Service.

DiskMaster installs and activates the service automatically.

Settings

You can set the name for the Service of File Server (**Host Name**), **WorkGroup** and the **Description** field**.**
After entering the parameters click **Save** to make permanent the configuration.

Share Folders

In this section you can create new folders, and enable them to decide access.

DiskMaster creates the defautl **public folder**, entitled to all account to read/write.

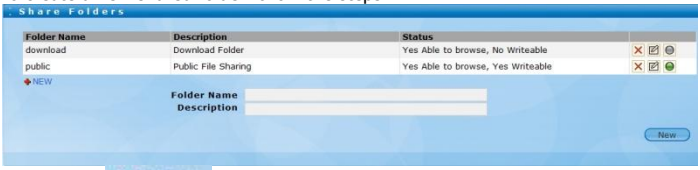
DiskMaster use the following structure for the creation/location of folders.

<table>
<tr><th>Root Directory</th><th>Home Directory</th><th>Account Directory</th><th colspan="2">Directory Structure</th></tr>
<tr><td rowspan="3">Sysadmin</td><td rowspan="3">Home</td><td>User1</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td>User2</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td>UserX</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td rowspan="3">Sysadmin</td><td rowspan="3">Samba_File</td><td colspan="3">public</td></tr>
<tr><td>usbshare</td><td colspan="2">usbshare_sdc_1
usbshare_sdc_x
usbshare_sdd_1
usbshare_sdd_x</td></tr>
<tr><td colspan="3">Folder1</td></tr>
<tr><td rowspan="2">Sysadmin</td><td>User1
User2
User….</td><td colspan="3">FolderX</td></tr>
<tr><td>ftp_file</td><td colspan="3">upload</td></tr>
</table>

- **Home:** folder that contain the folders associated with each new account.
- **Samba_File: public.** Default folder active in writing and configured for each user.
- **Samba_File: usbshare.** Default folder active and configured to write all USB devices connected to. A subfolder with the name of USB device is created and files are copied inside (USB Copy).
- **Samba_File: FolderX.** Cartelle Folders created by the administrator which have read access and permission to all by default.
- **ftp_file:** Home directory for users with access to anonymous FTP.

- **ftp_file: upload.** Upload directory for FTP users with anonymous access.

To create a new shared folder follow the steps:

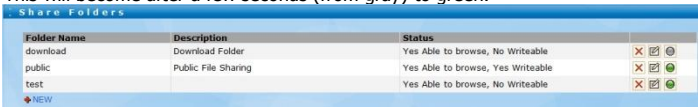


Click **NEW (** **),** type in the field **Folder Name** the name of the shared folder and then in **Description** an alphanumeric identifier. Click the button **NEW** to finish.

	Before starting, you should know the following limitations: ▪ **Lettera iniziale:** can't be a number, but only a character ▪ **Use only characters, numbers and** e "_" ▪ Windows doesn't recognize the difference between upper case and lowercase instead of machines based on Linux as DiskMaster. It is recommended not only to differentiate this account.

The folder created isn't checked, click on **Enable** to enable it (far right).

This will become after a few seconds (from gray) to green.



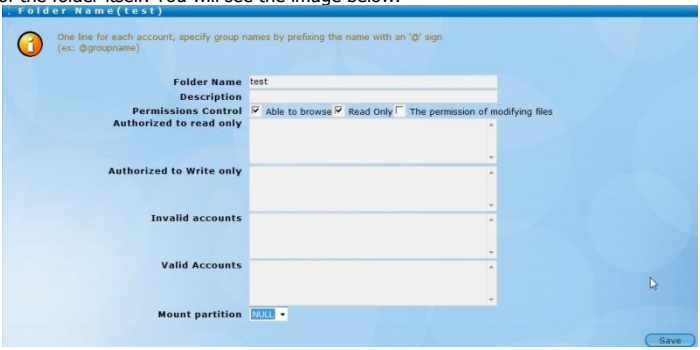
Now the folder can be seen in the network using the File Server.

	All other users, on each new folder you created and activated, only have read access.

	To delete a shared folder click on the button (far right) of the folder itself. DiskMaster asks for confirmation. Click OK to continue. **All files in it will be removed from the system**.

	For mapping a network drive using the syntax: **\ \ IP address \ FolderX** , using the credentials you have created. For more details see the chapter in Section 1.12.

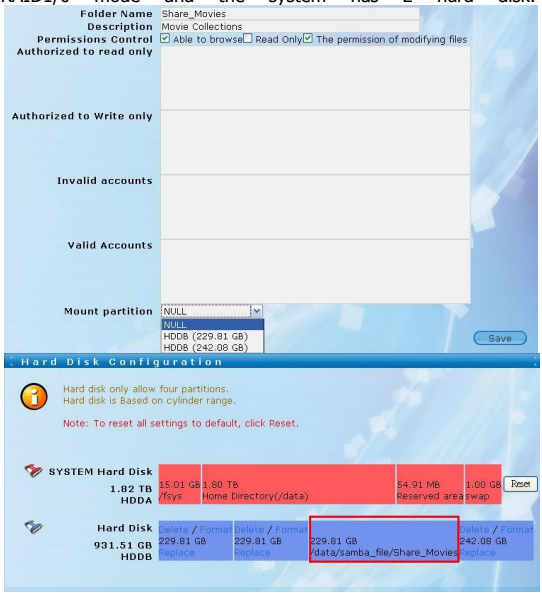
To configure access to a folder, once activated, click on the button (Far right) of the folder itself. You will see the image below.

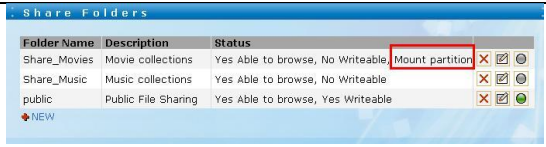


- **Folder Name:** You can change the folder name here.
- **Description:** you can change the name.
- **Permission Control:** You can select the type of access allowed to users.
  - **Able to Browse:** allows you to find the folder.
  - **Read Only:** allows you to read the contents of the folder.
  - **The permission of Modifyng files:** allows read/write files or directories created by other users.
- **Authorized to Read Only:** type the names of users whose have read-only access. This does not change the permissions of other users.
- **Authorized to Write Only:** type the names of users who have write-only access. This does not change the permissions of others.
- **Invalid Accounts:** type the names of users who should not have access to the folder.
- **Valid Accounts:** type the names of users who need access to the folder.

- Type only one account per line, if you want to introduce more than one account, type the name and press enter.
- Type the @ character in front of groups.
- If an account is present in **Authorized to Write Only** and also in **Authorized to Read Only,** it will be considerate as **Authorized to Write Only.** Therefore in case of conflict: **Write>Read**
- If an account is present in **Valid Accounts** and also in

	Invalid Accounts, it will be considerate as **Invalid Accounts.** Therefore in case of conflict: **Invalid>Valid** ▪ DiskMaster uses the following order of importance: **Invalid>Valid-> Write>Read**

	When you create a shared folder, you can redirect to a partition larger than the root partition.DiskMaster supports up to 4 folders redirected. This type exists only when you are not using RAID1/0 mode and the system has 2 hard disk.  In **shared Folders** you will see **Mount Partition** close to the redirected to a primary partition.


Share Folders
Folder Name
Description
Status
Share_Movies
Movie collections
Yes Able to browse, No Writeable, Mount partition
Share_Music
Music collections
Yes Able to browse, No Writeable
public
Public File Sharing
Yes Able to browse, Yes Writeable
NEW

2.9 SERVER->FTP Server

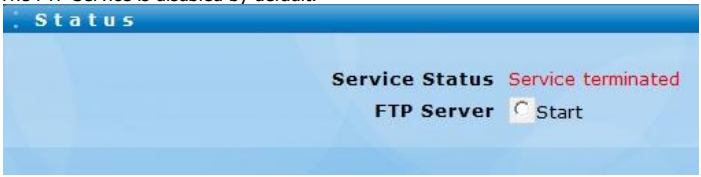
The FTP service (File Transfer Protocol) allows transfer of files over the Internet or local LAN.

The menu consists of four sub-test:

- **Status:** allows you to activate or deactivate the status of the FTP server. This service **is not activated** by default**.**
- **Settings:** Allows you to set the operating mode of the FTP server of DiskMaster.
- **Anonymous Settings:** Anonymous Settings: Set the FTP server anonymously.
- **Logs:** logs you can see this for details on using the FTP server..

Status

The FTP Service is disabled by default.



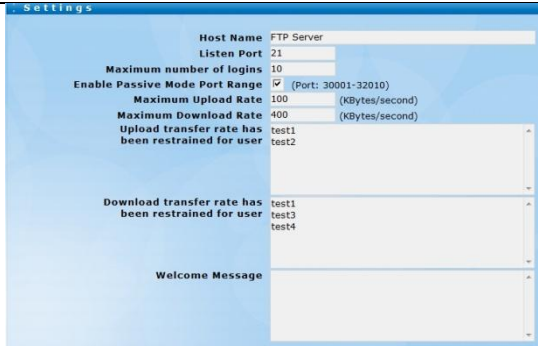
To enable service check **FTP Server Start**.When the service is active, you will see the screen below.

It's possible to stop or restart the service by checking the appropriate box.

Settings

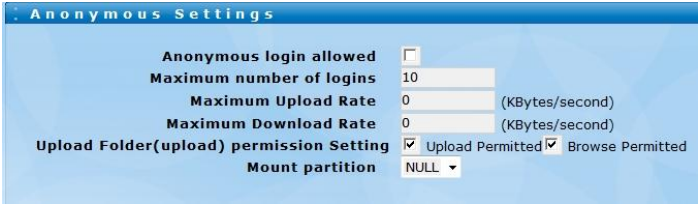
- **Host Name:** Enter the name of the FTP server.
- **Listen Port:** Generally, the listening port of the FTP server has the number 21. You can change that number but must be notified to the FTP client (and appropriately changed the Virtual Server section of the ADSL Router).
- **Maximum number of Logins:** Enter the maximum number of simultaneously active sessions. Each connection occupies 2 sessions (data and control).
- **Enable Passive Mode port Range:** The FTP service can operate in either active (default port 20) or passive (redirected port range shown).
- **Maximum Upload/Download Rate:** It 's possible to limit the introduction of a value. A value of 0 implies no restriction DiskMaster and use all available bandwidth.
- **Upload Transfer Rate has been restricted for user:** It 's possible to set limits (upload / download) the account added. And 'possible to insert only account (not groups). If this field is empty the restrictions will be general.
- **Welcome Message:** The welcome message shown to DiskMaster connection from the FTP client connected.

After entering the parameters click **Save** to make permanent configuration.



- Test1 is limited to uploads and downloads to 100KBs 400KBs.
- Upload Test2 is limited to 100KBs downloads but has no limits.
- Test 3 and Test4 have limits but not a download 400Kbs upload..

Anonymous Settings



- **Anonymous login Allowed:** Check to allow anonymous login.
- **Maximum number of Logins:** Enter the maximum number of simultaneously active sessions. Each connection occupies 2 sessions (data and control).
- **Maximum Upload/Download Rate:** It 's possible to limit the introduction of a value. A value of 0 implies no restriction and DiskMaster use all available bandwidth.
- **Upload Folder (upload) Permission Setting:** Check voice Upload Permitted to allow uploading, cropping **Browse Permitted** to help you see the contents of the folder upload.
- **Mount Partition:** You can redirect to a partition larger than the root partition. This type exists only mode when not using RAID1 / 0 and the system has 2 hard disk.

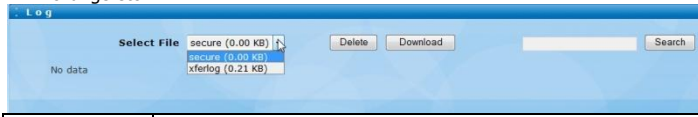
After entering the parameters click Save to make permanent configuration..

	▪ If the administrator delete / rename the folder uploads, you can not anonino to upload files. ▪ The Uploads folder can be regenerated by checking the heading **Anonymous Login Allowed** (in FTP Server) and then click **Save**.

Logs

The FTP server stores all activities that interest him. There are 2 types of log files..

- **Secure:** stores information such as Date, Time, IP Address, User Name.
- **Xferlog:** stores all the activities made by a user as upload, download, delete, change etc ...

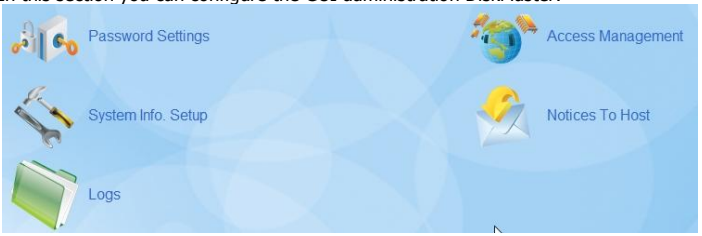


- A single file contains information about a week..
- The file 1-4 respectively indicate (the current week, 2 weeks ago ...)

- **Delete:** Deletes the current log file.
- **Download:** allows you to download the current log file and save it elsewhere.

2.10 GUI->GUI Management

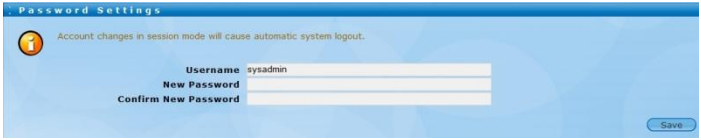
In this section you can configure the GUI administration DiskMaster.



The menu in question has 5 submenus:

- **Password Settings:** è You can change the user / password.
- **Access Management:** you can control access to the detailed configuration DiskMaster.
- **System Info.Setup:** Configuring notifications via email.
- **Notice to Host:** Configure the SMTP service.
- **Logs:** logs you can see this for details on using the FTP server.

Password Settings

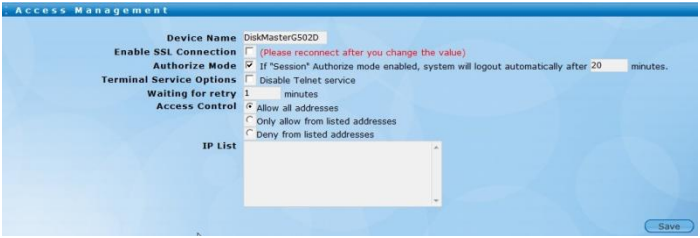


- **Username:** type your new username. default username is **sysadmin.**
- **New Password:** type your new password. The default password is **atlantis.**
- **Confirm New Password:** retype your new password.

After entering the parameters click Save to make permanent configuration..

	After 5 failed login, DiskMaster wait a minute before accepting a new login attempts.

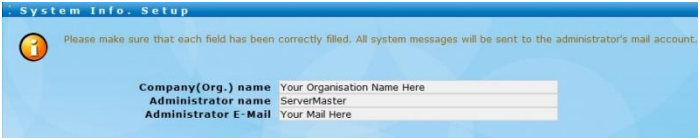
Access management



- **Device Name:** Type the name of the device. The default name is DiskMasterG502D.
- **Enable SSL Connection:** Check to enable encryption. To access the DiskMaster type https instead of http.
- **Authorize Mode:** If this option is not checked, the authentication is controlled dao computer's browser. If this option is checked nanny timed idle time (this is zero if the session is permanent) slaughtered and DiskMaster session will require a new login
- **Terminal Service Option:** Enable Telnet.
- **Waiting for retry:** after 5 failed login DiskMaster expect the value reported here (in minutes) before allowing another LOGIN.
- **Access Control:** Check the **Allow All Address** field to allow all IP addresses to access the configuration of the equipment. Check the **Only Allow from listed Address field** to allow access by all and only the reported IP in **IP List.** Check the **Address field Deny** from listed to allow access from all IPs, but block those reported in the **in IP List.**

After entering the parameters click Save to make permanent configuration.

System Info.Setup


System Info. Setup
Please make sure that each field has been correctly filled. All system messages will be sent to the administrator's mail account.
Company(Org.) name
Your Organisation Name Here
Administrator name
ServerMaster
Administrator E-Mail
Your Mail Here

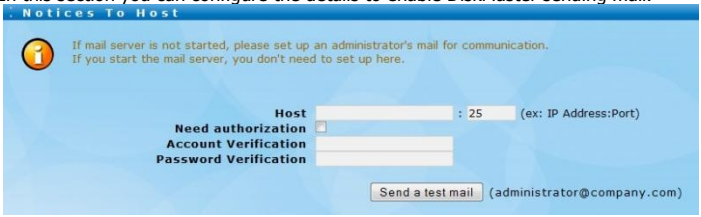
- **Company(Org.)name:** type identifier.
- **Administrator name:** type identifier.
- **Administrator E-Mail:** type the email address where the device sends alerts / messages.

After entering the parameters click Save to make permanent configuration..

	Hard Disk Management->Raid Alarm Setting **Backup Management->Schedule Backup**

Notices to Host

In this section you can configure the details to enable DiskMaster sending mail.


Notices To Host
If mail server is not started, please set up an administrator's mail for communication.
If you start the mail server, you don't need to set up here.
Host
: 25
(ex: IP Address:Port)
Need authorization
Account Verification
Password Verification
Send a test mail
(administrator@company.com)

- **Host:** IPO type the address of the SMTP server and port used (usually 25).
- **Need Authorization:** check if the SMTP server requires authentication.
- **Account Verification:** Type the username.
- **Password Verification:** Type the password.
- **Send a test Mail:** click to send a test email (the address entered in the Administrator E-Mail System Info.Setup).

After entering the parameters click Save to make permanent configuration.

Logs

DiskMaster stores all activities that affect the GUI. There are two types of log files:.

- **Miniserv.log:** stores information such as date, time, IP address, Username and transactions.
- **Miniserv.error:** stores all abnormal activity, including attacks..

- A single file contains information about a week.
- The file 1-4 respectively indicate (the current week, 2 weeks ago ...)

- **Delete:** Deletes the current log file.
- **Download:** allows you to download the current log file and save it elsewhere.

APPENDIX A: Troubleshooting

This chapter covers potential problems and the corresponding remedies.

A.1 Using LEDs to Diagnose Problems

The LEDs are useful aides for finding possible problem causes.

A.1.1 Power LED

The PWR LED on the front panel does not light up.

Steps	Corrective Action
1	Make sure that the DiskMaster's power adaptor is connected to the device and plugged in to an appropriate power source. Use only the supplied power adaptor.
2	Check that the DiskMaster and the power source are both turned on and the device is receiving sufficient power.
3	Check the power jack and verify.
4	Press the button and holds for 5 seconds to turn ON the device.
5	If the error persists, you may have a hardware problem. In this case, you should contact your vendor.

A.1.2 LED Link

The LAN LED on the front panel does not light up.

Steps	Corrective Action
1	Check the Ethernet cable connections between the DiskMaster and the computer or hub.
2	Check for faulty Ethernet cables.
3	Make sure your computer's Ethernet card is working properly.
4	If these steps fail to correct the problem, contact your local distributor for assistance.

A.2 Login: Username and Password

I forgot my login username and/or password.

Steps	Corrective Action
1	If you have changed the password and have now forgotten it, you will need to upload the default configuration file. This will erase all custom configurations and restore all of the factory defaults including the password.
2	Before you configure this device you need to know the following default settings: • Username**: sysadmin**

	• Password: **atlantis** • IP address: **by DHCP, (If a DHCP server isn't available in the network, the DiskMaster will use 192.168.1.251 and Subnet Mask 255.255.255.0).** • Server name: **DiskMasterG502D**
3	It is highly recommended to change the default username and password. Make sure you store the username and password in a save place.

A.3 WEB Interface

I cannot access the web configurator.

Steps	Corrective Action
1	Make sure you are using Internet Explorer 7.0 and later versions.
2	Delete the temporary web files and log in again. In Internet Explorer, click Tools, Internet Options and then click the Delete Files ... button. When a Delete Files window displays, select Delete all offline content and click OK. (Steps may vary depending on the version of your Internet browser.) E.G. Internet Explorer 7 (Tools->Internet Options->Advanced->Reset).

I cannot access the web configurator.

Steps	Corrective Action
1	Check Link LED (green).
2	Make sure you are using the correct IP address of the DiskMaster.
3	Found the new IP address of the DiskMaster with Utility.
4	Reset the device.

A.4 General

Some of the functions and menus are not available!

Steps	Corrective Action
1	Many of the functions require a hard drive to be installed. Make sure you have at least one HDD installed and formatted. Some functions will be available only after all modules will be installed.

What is the limitation of user on the NAS FTP, Samba and account mode?

Steps	Corrective Action
1	There are following limitations. 1. Maximum user number: FTP: 8 Users, Samba: 8 Users (total 12

	sessions at the same time). 2. FTP Server: Maximum is able to create 32 users accounts, 8 users account connect at the same time, and maximum 16 folders shared by one account). 3. Samba Server: Share Level Access (maximum 16 folders shared by root).

What is the protocol of network file sharing system using by DiskMaster?

Steps	Corrective Action
1	DiskMaster has the built-in Samba Server for file sharing, it is using SMB (Server Message Block) protocol to integrate TCP/IP, NETBUEI and IPX/SPX protocol. In other words, if the client PC that can support TCP/IP, NETBUEI or IPX/SPX, it will be compatible with DiskMaster. You can also use the built-in FTP Server for file sharing with Internet client.

A.5 Support

For technical questions and support, please contact our help-desk by ticket on http://www.atlantis-land.com/ita/supporto.php.

For generic informations, please send an e-mail to info@atlantis-land.com.

For presales informations, please send an e-mail to prevendite@atlantis-land.com.

Atlantis SpA
Via S. Antonio, 8/10
20020 Lainate (MI)
Fax: +39.02.78.62.64.39
Website: http://www.atlantis-land.com
Email: info@atlantis-land.com

APPENDIX B: Tips Before Installation

Before installing DiskMaster , please be aware of some key information regarding DiskMaster which will help you understand this machine and further operation.

1. 3 Seconds Power ON/OFF control

To avoid faulty power button operation:

- **Power ON**: Press the power button and hold for 3 seconds until the power LED turns on.
- **Power OFF**: Press the power button and hold for 3 seconds until the power LED turns off.

2. DHCP client only in the LAN

DISKMASTER is designed to be a DHCP client in the LAN and is set to "**Auto**" mode by default, eliminating Users having to input an IP Address manually.

3. Default IP: 192.168.1.251:6666

If the DHCP server is not present or if DISKMASTER is connected to the PC directly:

- Factory Default IP is 192.168.1.251 using the access port 6666.
- Web management: **http://192.168.1.251:6666**

4. Default Web Management (UI) system account and password

- Factory Default ID: **sysadmin**
- Factory Default PW: **atlantis**

5. Default SAMBA/FTP system account and password

- Factory Default ID: **sysadmin**
- Factory Default PW: **atlantis**

6. Disk Maximun Support

DISKMASTER can be fitted with 2 HDDs. These 2 HDDs can be configured to operate as Normal, Raid 0, or Raid 1. For a single drive, the maximun HDD capacity acknowledged by system is 2TB.

HDD Mode	HDD		Total Capacity	Remark
	A	B		
Normal	2TB	2TB	4TB	2 separate HDDs are shown in the system. 2TB is the maximum in each HDD bay.
RAID 0	1TB	1TB	2TB	2 HDDs are combined as a single HDD (Stripping). The maximun capacity can not exceed 2TB.
RAID 1	2TB	2TB	2TB	2 HDDs are exact duplicates of each other (Mirroring).

7. Native Server/Service and Extension Server/Module

DISKMASTER is equipped with two kinds of service, "Native" and "Extension".

- **Native Server**: "System Management", "SAMBA server" and "FTP server". These functions are DISKMASTER'S basic services.
- **Extension Server/Modue**: "Web servr", "Database server","UPnP server","iTune server","Download service" and "DDNS service". These are installed modules which are installed by the user's demand.

8. Easy NAS Positioning Utility – NASLink

- NASLink is a Windows based utility, and works with XP, Win-7(32/64).
- NASLink helps search for DISKMASTER's LAN IP Address when you don't know it.
- NASLink can help you connect to the web management page easily.

9. HDD Configurations of DISKMASTER

Before DISKMASTER gets working, DISKMASTER has to create a system disk. HDDs must be formated via DISKMASTER and the HDDs will be partitioned into 4 partitions as:

/fsys 15 GB	Home Directory(/data) ***The remaining capacity of the HDD**	Reserved area 50 MB	Swap 1 GB

- **/fsys:** This area stores system program including native and extenion modules, management data (i.e. user account), system settings information, etc…
- **/data:** General storage area which is controlled and used by the user.
- **Reserved area:** Reserved for future usage.
- **Swap:** Used by the system for temporary data management.

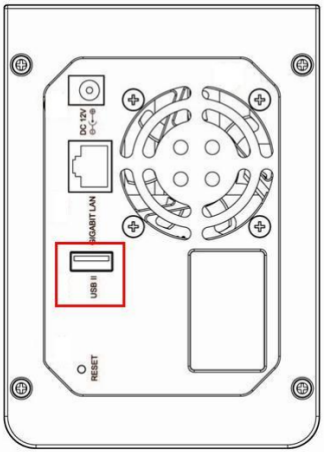
10. Reset to Default

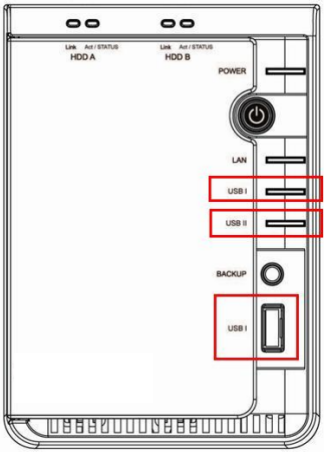
There is a "**Reset**" button on the back of DISKMASTER which will help return its **IP, System ID, System Password** and **DHCP** to their factory default values. Hold at least 5 secs to retore to Default

- IP: 192.168.1.251:6666 (or other applicable IP if connected to a DHCP server)
- System ID: sysadmin
- System password: atlantis
- DHCP: Auto mode
- Telnet access enable
- GUI Management access allows all IP address

APPENDIX C: USB Copy

DISKMASTER is equipped with 2 USB hosts which supports "**USB Mass Storage Device**". One is located on front panel and the other on the back panel. You can share all the data and contents on the device to all users through the File Server.





There are two LEDs on the front panel to indicate if the USB device is ready or not. When USB devices are plugged in and mounted on DISKMASTER system successfully, you can check the USB device information from the "Hardware Info". There are two USB devices mounted on DISKMASTER as shown in the picture above.

The picture above shows the USB devices recognized by DISKMASTER system and their mounting structure.

<table>
<tr><th>Root Directory</th><th>Home Directory</th><th>Account Directory</th><th colspan="2">Struttura directory</th></tr>
<tr><td rowspan="3">Sysadmin</td><td rowspan="3">Home</td><td>User1</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td>User2</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td>UserX</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td rowspan="3">Home</td><td rowspan="3">Samba_File</td><td colspan="3">public</td></tr>
<tr><td>usbshare</td><td colspan="2">usbshare_sdc_1
usbshare_sdc_x
usbshare_sdd_1
usbshare_sdd_x</td></tr>
<tr><td colspan="3">Folder1</td></tr>
<tr><td rowspan="2">Home</td><td>User1
User2
User....</td><td colspan="3">FolderX</td></tr>
<tr><td>ftp_file</td><td colspan="3">upload</td></tr>
</table>

All USB devices will be mounted under the directory "usbshare". If a USB device contains multiple partitions, then that USB device will be mounted as multiple directories.

DISKMASTER supports the following external USB HDD file system formats:

- **EXT2, EXT3:** Supports read and write permissions.
- **FAT32:** Supports read and write permissions.
- **NTFS:** Supports read only, write permission is not allowed

- To enable the Backup process just press the USB Copy button for 3 seconds.
- If DiskMaster two USB devices are connected they will be copied both.
- During the copy process the LED is connected to a USB storage device flash.
- copy files are placed in the folder and is only accessible Sysadmin dall'amministrtore System.
- The property is of type YYYY-MM-DD-HH-SS-Mn Sdxn (temporal indications of the beginning of the copy and the

	particulars of the device) ▪ To make these shared folders via File Server should drag the folder Samba_File.

APPENDIX D: WEB SERVER

The device also thanks to integrated support for Apache / PHP / MySQL, can function as a real web server hosting many sites of medium complexity. Click on Web Server, will the image below.

The menu in question is composed of four sub-menu:

- **Status:** allows you to enable or disable the Web Server module status. This service is not activated by default (after installation).
- **Virtual Host:** allows you to set the Virtual Host.
- **PHP.ini Settings:** can set the settings.
- **Logs**: stores the web server logs.

Status

The Web Server service is disabled by default.

To enable service check Web Server Start.
When the service is active, it will show the screen below.

It's possible to stop or restart the service by checking the appropriate box.
DiskMaster supports two levels:

- **Level 1**: E 'can only upload a web site, directly into the WWW. Here there are 2 folders html (for HTML) and cgi-bin (for CGI).
- **Level 2:** Are different, one for each user account created. Therefore each user directory will be created two nested directory: public_html and a subdirectory cgi-bin.

<table>
<tr><th>Root Directory</th><th>Home Directory</th><th>Account Directory</th><th colspan="2">Struttura directory</th></tr>
<tr><td rowspan="3">Sysadmin</td><td rowspan="3">Home</td><td>User1</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td>User2</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td>UserX</td><td>Public_html</td><td>Cgi-bin</td></tr>
<tr><td rowspan="4">Sysadmin</td><td rowspan="4">Samba_File</td><td colspan="3">public</td></tr>
<tr><td>usbshare</td><td colspan="2">usbshare_sdc_1
usbshare_sdc_x
usbshare_sdd_1
usbshare_sdd_x</td></tr>
<tr><td colspan="3">Folder1</td></tr>
<tr><td>WWW</td><td colspan="2">HTML, Cgi-bin</td></tr>
<tr><td rowspan="2">Sysadmin</td><td>User1
User2
User….</td><td colspan="3">FolderX</td></tr>
<tr><td>ftp_file</td><td colspan="3">upload</td></tr>
</table>

DiskMaster usually done in HTML (the file folder named index.XXXX (the order of execution priority is: index.html, index.htm, index.php, index.phtml, and finally index.cgi index.pl). Therefore it is good to consider the execution priority: html has higher priority, then htm, php, phtml, cgi pl and last.

	DiskMaster supports 2 types of CGI, PERL and SHELL (only basic libraries).

	To access the website hosted just type: ▪ **http:// IP address DiskMaster** ▪ **http:// IP address DiskMaster/~UserX**

	Does not support https protocol.

Virtual Host Settings

Host virtual address allows you to use 2 or more domain names, each with their own independent pages. Click NEW (NEW).

Virtual Host
More then one web application can be installed in the Virtual Host. Make sure the DNS is corresponding to the Virtual Host IP.
Virtual Host Name
Name of Directory
Website administrator
Maximum bandwidth limits
Transfer the URL
NEW

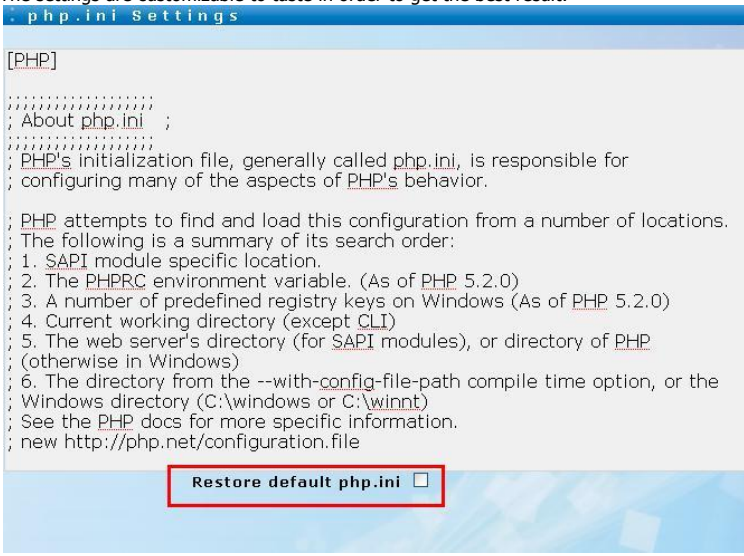
You will see the screen below.

- **WebSite Administrator:** can be selected via the combo box, the administrator of each virtual site. Should be chosen among users previously created in DiskMaster.
- **Virtual Host Name:** enter the domain name (must Register yourself at your ISP)
- **Name of Directory:** It 'can create a new folder or use an existing. The folder is created in the directory with the name (if you chose a WebSite Administrator user account) or in the WWW if you chose Sysadmin as administrator.
- **Maximum connections limits:** type the number of concurrent connections. If left blank DiskMaster continue to accept connections.
- **Maximum bandwith limits:** type the maximum bandwidth (in KB / s). If left blank DiskMaster tend to use all available resources.
- **File size limits:** If the file size over the setting value. A limit will be placed on the bandwidth of the web server.
- **Transfer the site to Destination URL:** It's possible to redirect to another IP or domain.

After completing the Virtual Host settings, please click "enable" to activate the settings.

PHP INi Settings

PHP is used mainly for dynamic HTML (message boards, forums and chat rooms). The settings are customizable to taste in order to get the best result.

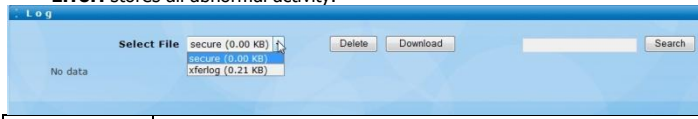

. php.ini Settings
[PHP]
; About php.ini ;
; PHP's initialization file, generally called php.ini, is responsible for
; configuring many of the aspects of PHP's behavior.
; PHP attempts to find and load this configuration from a number of locations.
; The following is a summary of its search order:
; 1. SAPI module specific location.
; 2. The PHPRC environment variable. (As of PHP 5.2.0)
; 3. A number of predefined registry keys on Windows (As of PHP 5.2.0)
; 4. Current working directory (except CLI)
; 5. The web server's directory (for SAPI modules), or directory of PHP
; (otherwise in Windows)
; 6. The directory from the --with-config-file-path compile time option, or the
; Windows directory (C:\windows or C:\winnt)
; See the PHP docs for more specific information.
; new http://php.net/configuration.file
Restore default php.ini

If you change the settings of the php.ini, please click the "**Save**" to activate the changed values. There is a box next to "**Restore default php.ini**". Ticking this box and clicking the "**Save**" will return the settings to default php.ini settings Their original.

Logs

The Web server stores all the activities that interest him. Are 2 types of log files.

- **Access** stores information such as date, time, IP address, Username.
- **Error:** stores all abnormal activity.

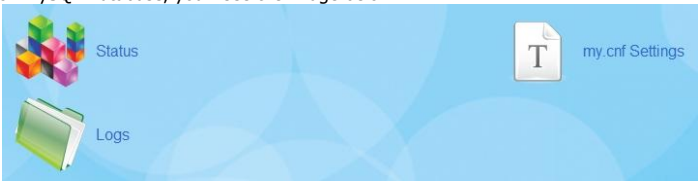


- A single file contains information of a week.
- The file 1-4 respectively indicate (the current week, 2 weeks ago ...)

- **Delete:** remove the log file selected.
- **Download:** allows you to download the selected file and save it elsewhere LOG.

APPENDIX E: MySQL Database

The device also built MySQL with support, can work as a real SQL database. Click on MySQL Database, you'll see the image below.



The menu in question consists of three sub menu:

- **Status:** allows you to activate or deactivate the module status **MySQL Database**: This service **is not activated** by default (after installation).
- **My.cnf Settings:** can set the settings.
- **Logs**: stores the web server logs.

Status

MySQL Database Service is disabled by default.

To enable service check **Start MySQL database. Passwords used for access will be (root, mydbpw**).
If these passwords are changed, you can stop the service and restart it checking **reset account and password to default value when start**.
When the service is active, you will see the screen below.

It's possible to stop or restart the service by checking the appropriate box.

	MySQL Database requires that the **Web Server** service is installed and active. If it were not so will be appropriately marked.

My.cnf Settings

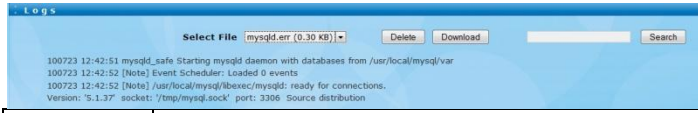
MySQL supports character set: UTF-8 Unicode (utf8).

After entering the parameters click **Save** to make permanent and use the new configuration settings.

	See http://www.mysql.com for more details

Logs

Records the log files of the MySQL status (either as Normal, Error, or Terminated) and is available for the administrator's reference.


Logs
Select File
mysqld.err (0.30 KB)
Delete
Download
Search
100723 12:42:51 mysqld_safe Starting mysqld daemon with databases from /usr/local/mysql/var
100723 12:42:52 [Note] Event Scheduler: Loaded 0 events
100723 12:42:52 [Note] /usr/local/mysql/libexec/mysqld: ready for connections.
Version: '5.1.37' socket: '/tmp/mysql.sock' port: 3306 Source distribution

- A single file contains information of a week.
- he file 1-4 respectively indicate (the current week, 2 weeks ago ...).

- **Delete:** remove the log file selected.
- **Download**: allows you to download the current log file and save it elsewhere.

APPENDIX F: PostgreSQL Database

Postgre SQL is a great help (object oriented) to allow the database management SQLI. Click on the **PostgreSQL database**, you'll see the image below.

The menu in question consists of three sub menu:

- **Status:** allows you to toggle the state of the **PostgreSQ**L database module. This service **is not activated** by default (after installation).
- **Logs**: stores the web server logs.

Status

The **PostgreSQL Database Service** is disabled by default.

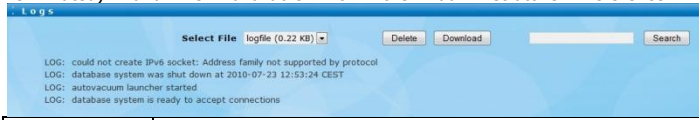
To enable service check **PostgreSQL database start. Passwords used for access will be (root, mydbpw).**
If these passwords are changed, you can stop the service and restart it checking **reset account and password to default value when start**.
When the service is active, it will show the screen below.

It's possible to stop or restart the service by checking the appropriate box.

	PostgreSQL Database requires detailed knowledge for its use.

Logs

Records the log files of the PostgreSQL status (either as Normal, Error, or Terminated) and is available for the administrator's reference .


Logs
Select File
logfile (0.22 KB)
Delete
Download
Search
LOG: could not create IPv6 socket: Address family not supported by protocol
LOG: database system was shut down at 2010-07-23 12:53:24 CEST
LOG: autovacuum launcher started
LOG: database system is ready to accept connections

	▪ A single file contains information of a week. ▪ The file 1-4 respectively indicate (the current week, 2 weeks ago ...)

- **Delete:** remove the log file selected.
- **Download:** allows you to download the current log file and save it elsewhere.

APPENDIX G: DDNS

This section explains how to configure Dynamic DNS DiskMaster section. Through the use of this feature, you can register a domain although associated with a dynamic IP. There are a multitude of DDNS server that offer this service for free. Will be sufficient to enable register for free and immediate service that will reach (remote) always Router responsible for connectivity. This way you can easily configurations remotely, access the Web site or FTP server. The client is built, will tell the DDNS server IP address. In this way, everyone outside will know the URL of the IP address at that time was assigned to DiskMaster.

	DiskMaster supports Dynamic DNS service, supports the following service providers (DDNS-CN99: www.3322.com, DDNS-NOIP: www.no-ip.com, DDNS-NOIPCN: www.noip.com)

Click on Server-> DDNS, will the image below.

The menu consists of two sub-examination:

- **Status:** allows you to enable or disable DDNS module state. This service **is not activated** by default (after installation).
- **Settings:** can set the settings of your service provider.

Status

DDNS Service is disabled by default.

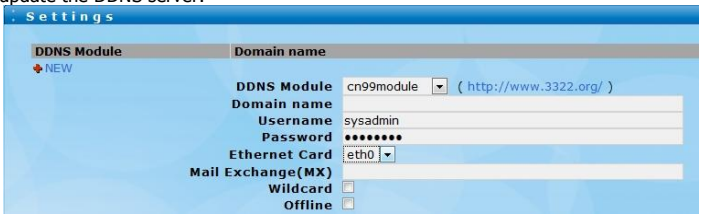
To enable service check **DDNS Setting Start.**
When the service is active, it will show the screen below.

It's possible to stop or restart the service by checking the appropriate box.

Settings

Click **NEW** (NEW).

The following image will appear where you can configure parameters for access and update the DDNS server.



- **DDNS Module:** Select from the combo-box the appropriate form (only display the installed modules).
- **Domain Name:** Enter the domain name assigned by your Dynamic DNS.
- **Username:** Enter the username of 'Dynamic DNS account.
- **Password:** Enter the password of 'Dynamic DNS account..
- **Ethernet Card:** select the interface (usually **eth0**, in the case of PPPoE select ppp0).
- **Mail Exchange (MX):** Enter the name of the Mail Exchange.
- **WildCard:** Select this item to enable the functionality DYNDNS Wildcard
- **OffLine:**

After entering the parameters click **Save** to make permanent configuration. Enable DDNS then clicking **Enable.**

	Enabling the wildcard feature on your host all domains *. yourhost.dyndns.org will be mapped on 'IP domain yourhost.dyndns.org. This function is useful for example to make www.yourhost.dyndns.org yourhost.dyndns.org be mapped.

	If registration is successful and the service activated will show the IP address assigned to the registered domain (normally the responsibility of the router's WAN connectivity).

APPENDIX H: iTunes Server

Enabling this service allows you to view files in the folders listed directly from iTunes. Click on the iTunes Server, the image will appear below.

The menu in question consists of three sub-menu:

- **Status:** allows you to activate or deactivate the module status **iTunes**
- **Server**. This service **is not activated** by default (after installation)
- **Settings:** can set the settings.
- **Playlist Setting:** to set the settings of your playlists.

Status

The **iTunes Server service** is disabled by default.

To enable **ITunes Server Service** check **Start Server.**
When the service is active, you will see the screen below.

It's possible to stop or restart the service by checking the appropriate box.

Settings

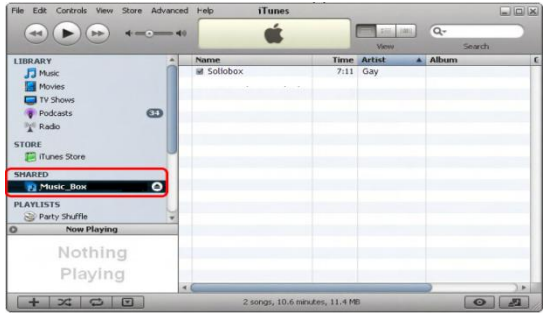
Settings
iTunes Server is to Share Music Folders on File Server. Please go to File Server and create share folders first.
If you want to display title picture in iTunes, you can save the picture filename in _folderOpenImage.jpg.
Note: If the share folders is not exist in file system, the server is unable to activate!
Host Name
My iTunes
Rescan Interval
1200
Second
Filename codepage
Unicode
Password
File Extension
mp3
m4a
m4p
Share Folders
/data/samba_file

- **Host Name:** Identifies the iTunes Server on the network. Please give the iTunes Server a distinctive name on DISKMASTER so it can be easily identified.
- **Rescan Interval:** According to your settings, DISKMASTER will rescan and add new files into the iTunes list..
- **Filename Codepage:** Select Unicode.
- **Password:** Set up your password. If You Want to Set the sharing limitations you can set to password here. Anyone Attempting to Access Your iTunes will then be required to type in a password.
- **File Extension:** Set up your media supporting file types.
- **Share Folders:** Place your media files in this folder. **If the shared folder does not exist in the File server, the iTunes server will not activate**.

After entering the parameters click Save to make permanent configuration.

	Some types of files may not be fully supported. Not a problem product.

When the iTunes service is active into DiskMaster is possible to save MP3 files in the folder specified in the **Shared Folders** and playback directly from DiskMaster that appears in iTunes under **Shared Devices.**



Playlist Settings

playlist Settings
: mt-daapd.playlist 449 2004-12-22 05:05:47Z rpedde This is the playlist file, for specifying iTunes-style
"Smart Playlists".
#
The syntax is as follows:
#
"Playlist Name" { expression }
#
An expression consists of:
#
ID3-tag-name operator operand
#
Where valid ID3-tag-names are:
Artist (string)
Album (string)
Genre (string)
Path (string) -- full path to song, including filename
Composer (string)
Orchestra (string)
Conductor (string)
Grouping (string) -- I don't even know what this is...
Save

Edit to change the display style in iTunes, then click on **save** button.

	Adjustment is recommended for advanced users only.

APPENDIX I: UPnP Media Server

Click on **UPnP Media Server**, the image will appear below.

The menu consists of two sub-menu:

- **Status:** allows to activate or deactivate the module status **UPnP Media**
- **Server**. This service **is not activated** by default (after installation)
- **Settings:** Allows you to set the settings.

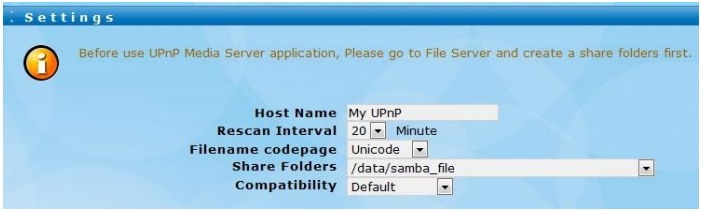
Status

UPnP Media Server Service is disabled by default.

To enable service check **UPnP Media Server Start**.
When the service is active, you will see the screen below.

It's possible to stop or restart the service by checking the appropriate box.

Settings



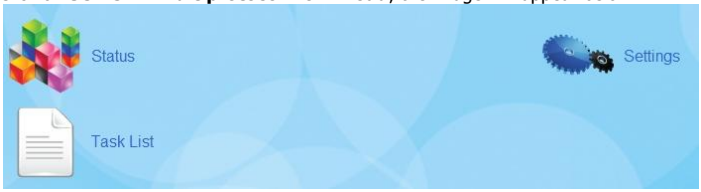
- **Host Name:** Choose your own name for the UPnP Media Server which must be distinctive to other UPnP servers in the network.
- **Rescan Interval:** According to your settings, it will rescan and add new file to the **UPnP sharing list**.
- **Filename Codepage:** Select Unicode.
- **Share Folders:** Place your media files in this folder. **Before using the UPnP Media Server application, go to the File Server and create a shared first**.
- **Compatibility:** Select the compatibility such as PS3 or Xbox360.

After entering the parameters click Save to make permanent configuration.

	Some types of files may not be fully supported. Not a problem product.

APPENDIX L: MultiProtocol DownLoad

Click on **Server-> Multiprotocol DownLoad**, the image will appear below.

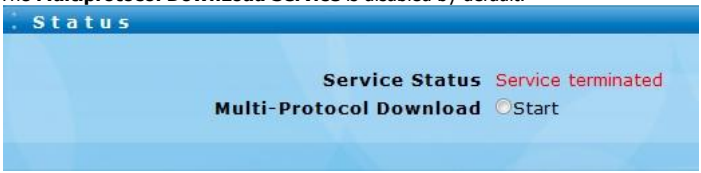


The menu in question consists of three sub-menu:

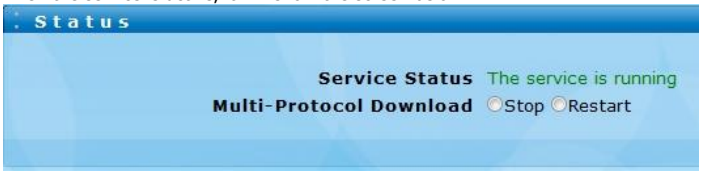
- **Status:** allows to activate or deactivate the module status **Multiprotocol Download**. This service **is not activated** by default (after installation).
- **Settings:** Allows you to set the settings.
- **Task List:** Task list.

Status

The **Multiprotocol DownLoad Service** is disabled by default.

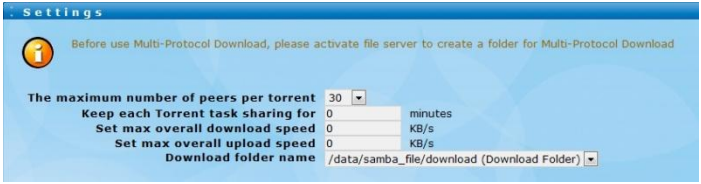


To enable service check **Multiprotocol DownLoad Start**.
When the service is active, it will show the screen below.



It's possible to stop or restart the service by checking the appropriate box.

Settings



- **The Maximum number of peers per torrent:** Limits the amount of connections that can be made per torrent.
- **Keep each torrent task sharing for:** Set the file sharing duration to last after the file had finished downloading.
- **Set Max overall download speed:** Limits the downloading speed. (Includes all the protocol for downloading).
- **Set Max overall upload speed:** Limits the uploading speed. (Includes all the protocol for uploading)
- **DownLoad folder Name:** Set the default folder where you would like to save your downloaded files.

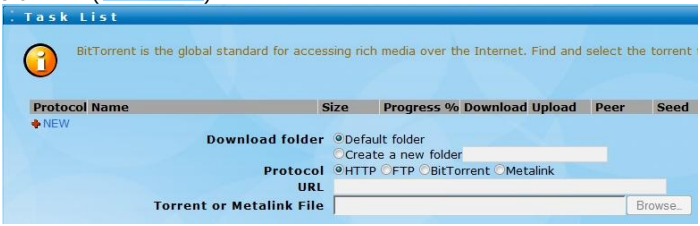
After entering the parameters click Save to make permanent configuration.

	he use of download services are regularly downloaded files are not protected by copyright. **Atlantis can not be held responsible in case of downloading copyright-protected material. The user does this at your own risk.**

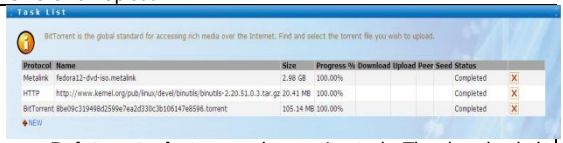
Task List

Click **NEW** (

).



- **Default folder:** selected to place the file in the folder selected in **Download folder name**.
- **Create a new folder: c**heck to create a new subfolder (insert name)
- **Protocol:** select the checking protocol that will be used among those proposed.
- **URL:** Enter the URL to download
- **Torrent o MetaLink File:** Click Browse and select the file you downloaded torrent and then click on Upload**.**



- **Delete a task:** to cancel an active task. The downloaded data will remain and must be removed manually.
- **Disable:** Stop a task.

APPENDIX M: Technical Features

Protocols	IP, NBNS("NetBios" Name Server), Microsoft Networks (CIFS/SMB), DHCP Server/Client, SNTP Client, NTP
LAN port	1 x RJ45 10/100/1000 Base-T port
USB A Port	2*USB V2.0 (External HD)
LED Indicators (8)	Power, USB1, USB2, HDD1, HDD2, LAN
Hard Disk	2 x SATA I/II
Supported System Format:	Internal: EXT3 / External: EXT2, EXT3, FAT32, NTFS (read Only)
CPU	Marvell 5082@300Mhz
RAID Controller	SiliconImage Sil5923
Temperature/FAN controller	Microchip PIC12F6775 (Fan speed divides into 4 stages according to temperature)
Memory (Firmware)	128MB DDR SDRAM (16MB NORFLash)
Sharing Protocol	SAMBA, FTP
Advanced Features	▪ iTunes®, ▪ BitTorrent ▪ UPnP AV ▪ Dynamic DNS ▪ Apache & MySQL ▪ FTP Server
External buttons	Reset/Power Switch/USB BAckup
Input Power	12V DC @ 3A
Power Consumption	< 20 watts
Agency and Regulatory	CE
Dimensions	240mm x 100mm x 140mm (W*H*D)
Weight	2100g (exclude Hard Disk)
Housing	Metal
Operating Temperature	0° to 35°C
Storage Temperature	-10° to 60°C
Operating Humidity	10-85% non-condensing
System Requirements	▪ 1Ghz processor or higher and 512 MB RAM or above ▪ 30 MB available hard disk space ▪ Installed network adapter ▪ Any installed web browser (IE6.0, Firefox version:2.0.0.4 or above) to view the web UI

System Requirements for SmartSync Pro	▪ Windows 2000, XP, Vista, 7, Server 2003, Server 2008, and Server 2008 R2. Both x86 and x64 versions.
Package Contents	▪ DiskMaster Dual BAY Network Storage ▪ RJ45 CAT 5 cable ▪ One Quick Start Guide (English, Italian) ▪ One CD with driver, software, utility and manuals ▪ Power Adapter AC-DC (12V, 3A) ▪ WEEE and Warranty

APPENDIX N: Compatibility List

Brand	Model	MB
Western Digital	WD5000AAKS	500
Western Digital	WD10EADS	1000
Western Digital	WD10EARS	1000
Western Digital	WD20EADS	2000
Western Digital	WD20EARS	2000
Seagate	ST3200820AS	500
Seagate		1000
Seagate		2000
Hitachi	HDS722020ALA330	2000

Hard drive not included. An internal SATA I/II Hard Disk is required to share or store data files. This product may not work with older generation SATA/ I/II drives. For more info please check on the web site (list of Hard Drive tested).
A 7200 RPM drive consumes about 8-15Watts, mostly from the 12V rail (please check that the total peak power consumption is < 24W (in case You use 2 HD, please add the 2 peak consumption)).
Performance and Throughput are influenced by many factors All rights registered
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Specifications are subjected to change without prior notice.
No liability for technical errors and/or omissions.
Network conditions and environmental factors, including volume of network traffic and network overhead, lower actual data throughput rate.

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